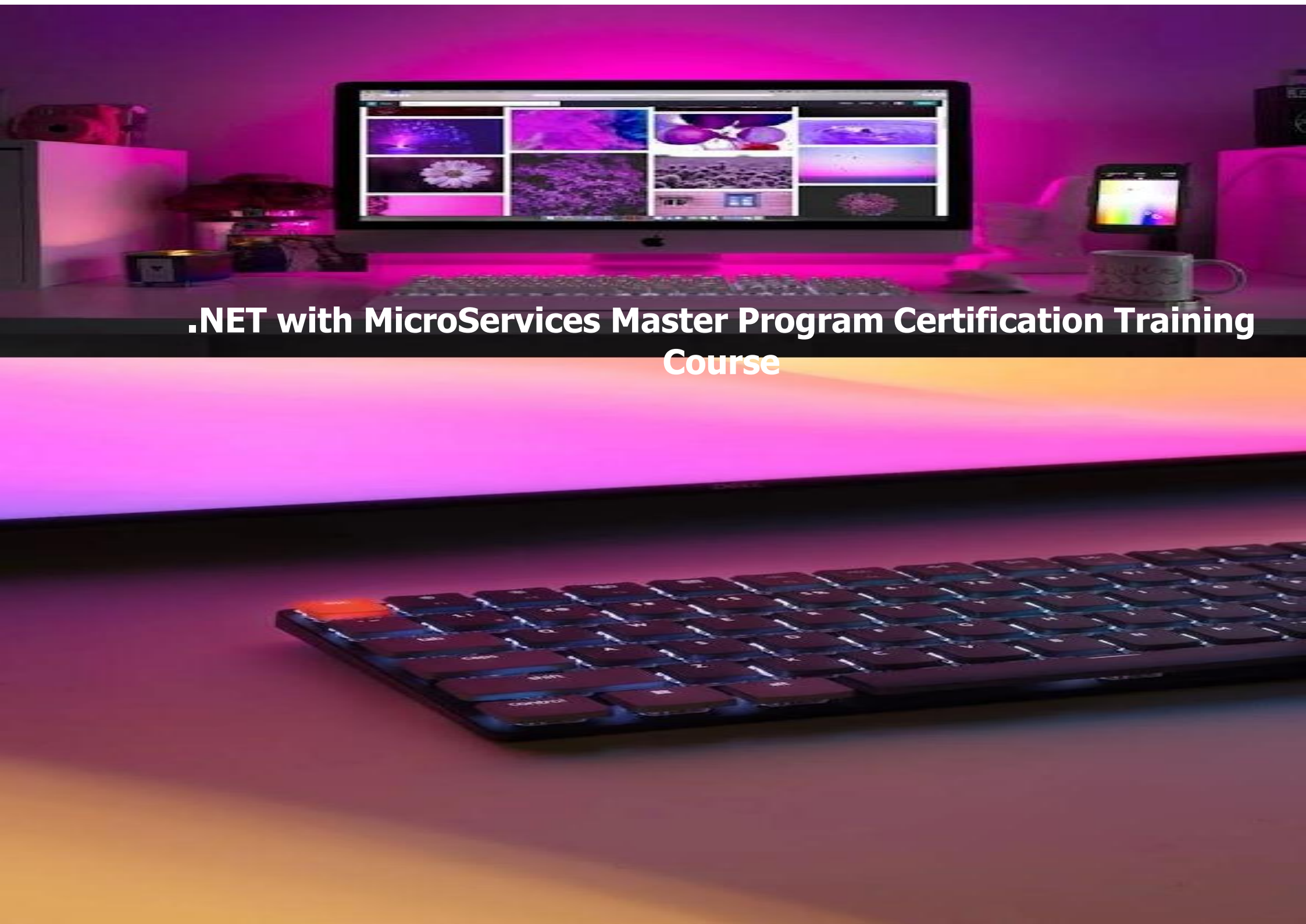


A desk setup featuring a computer monitor displaying a gallery of images, a keyboard, a mouse, and a mug, with a blue light bar underneath. The monitor shows a grid of eight images, including a flower, a landscape, and abstract patterns. The keyboard is a black Apple keyboard with a red escape key. The mouse is a black Apple mouse. The mug is white with a blue design. The light bar is blue and illuminated.

.NET with MicroServices Master Program Certification Training Course

About Us

Welcome to **Yuva Sakthi Academy!**

We are committed to delivering high-quality education and creating a learning environment where students can thrive. With a focus on both academic and personal development, we aim to empower every learner who walks through our doors.

Our Mission

Our mission is to equip individuals with the knowledge, skills, and confidence to achieve their goals. We focus on holistic development, encouraging not just academic success but also personal growth and career readiness.

What We Offer

We provide expert-led training programs designed to meet the needs of school students, competitive exam aspirants, and skill-seekers. Our curriculum blends strong foundational learning with practical application, ensuring every student is career- and life-ready.

Our Impact

Over the years, Yuva Sakthi Academy has helped countless students unlock their potential and succeed in their chosen fields. Many of our alumni have gone on to excel in academics, careers, and life—all starting with the right guidance here.

Visit us at www.yuvasakthiacademy.com to learn more.



About Us .NET with Microservices Master Program

At Yuva Sakthi Academy, our **.NET with Microservices Master Program** provides a comprehensive, industry-driven foundation in modern application development using .NET and cloud-native microservices architecture. Designed for beginners, students, IT professionals, and aspiring backend developers, this course covers essential concepts such as C#, .NET Core, RESTful APIs, Microservices Design Patterns, Docker, Kubernetes, Messaging Queues, and Cloud Deployment (Azure/AWS).

Through practical, hands-on projects, you'll learn to build, deploy, and manage real-time microservices applications that are scalable, reliable, and high-performing. You will work with leading technologies and tools like Visual Studio, Docker, Kubernetes, gRPC, API Gateway, Entity Framework Core, and CI/CD pipelines. Strengthen your backend development skills, master distributed system concepts, and gain the expertise needed to excel in today's high-demand .NET and microservices engineering roles.

Why Choose Digital Marketing Master Program from Yuva Sakthi Academy?



Industry-Leading Platform:

Master essential .NET and Microservices skills, including C#, .NET Core, REST APIs, Docker, Kubernetes, and cloud deployment using real-time tools and best practices. Build scalable, high-performance applications and accelerate your software development career!



Opportunity in Top MNCs:

Gain hands-on .NET with Microservices training using .NET Core, Docker, Kubernetes, and cloud tools. Build scalable, industry-ready applications and accelerate your career with expert guidance.



Lucrative Salary:

Master high-demand skills in .NET Core, Microservices, Docker, Kubernetes, and Azure/AWS to boost your earning potential. Learn industry-leading technologies and unlock top-paying opportunities in leading IT companies 📈🌟

Expert-Led Instruction:

Get comprehensive training in .NET Core, Microservices, API development, Docker, and Kubernetes. Learn directly from industry experts through real-time projects, architecture walkthroughs, and hands-on deployment workflows.

Hands-On Experience:

Gain practical experience by building real-world .NET Core applications, Microservices, and REST APIs. Work with Docker, Kubernetes, CI/CD pipelines, and cloud deployments to master industry-ready microservices execution.

Comprehensive Curriculum:

Master essential .NET skills including C#, ASP.NET Core, Microservices architecture, REST APIs, Docker, and Kubernetes. Gain hands-on experience building, deploying, and scaling real-world microservices applications using industry-standard tools.

Cutting-Edge Tools:

Master essential tools like Docker, Kubernetes, Git, Postman, and Azure/AWS for building and deploying Microservices. Create, test, and optimize scalable applications using modern, industry-standard development platforms.

Career Advancement:

Boost your career with our industry-recognized .NET with Microservices certification and hands-on project portfolio. Qualify for high-demand roles in Microservices Development, Cloud Engineering, and .NET Full-Stack Development across leading companies.

Flexible Learning:

Learn .NET with Microservices at your own pace through our flexible, self-paced training program. Balance work or studies while mastering industry-ready skills with structured modules and hands-on microservice projects.

.NET with Microservices Training Tools & Technologies

- .NET Core / .NET 6+
- C# Programming
- Microservices Architecture
- Docker & Containerization
- Kubernetes (K8s)
- RESTful API Development
- Entity Framework Core
- Azure / AWS Cloud Services
- API Gateway & Load Balancing
- Message Brokers (RabbitMQ / Kafka)
- CI/CD Tools (Git, GitHub Actions, Jenkins)
- Postman & Swagger for API Testing
- SQL Server / NoSQL Databases
- Monitoring Tools (Prometheus, Grafana)

Top .NET with Microservices Training Program Providers

- **DotNetMicroservices.com** — Offers a suite of courses specifically designed around .NET microservices, API development, Azure deployment, and DevOps.
- **Altoros** — Provides expert-led microservices architecture training focused on .NET, scalability, and cloud deployment.
- **myTectra** — High-quality microservices training in .NET with Docker, Kubernetes, and CI/CD for real-world development.
- **ScholarHat** — .NET Microservices certification program with live training, hands-on labs, and projects.
- **Ecorp Trainings** — Corporate-level .NET Core microservices training tailored for teams, covering APIs, service communication, and deployment.
- **Netskill** — Flexible training programs (online, in-person, self-paced) on microservices architecture, including .NET-based systems.

Who should Go for this .NET with Microservices Training Program?

Software Developers

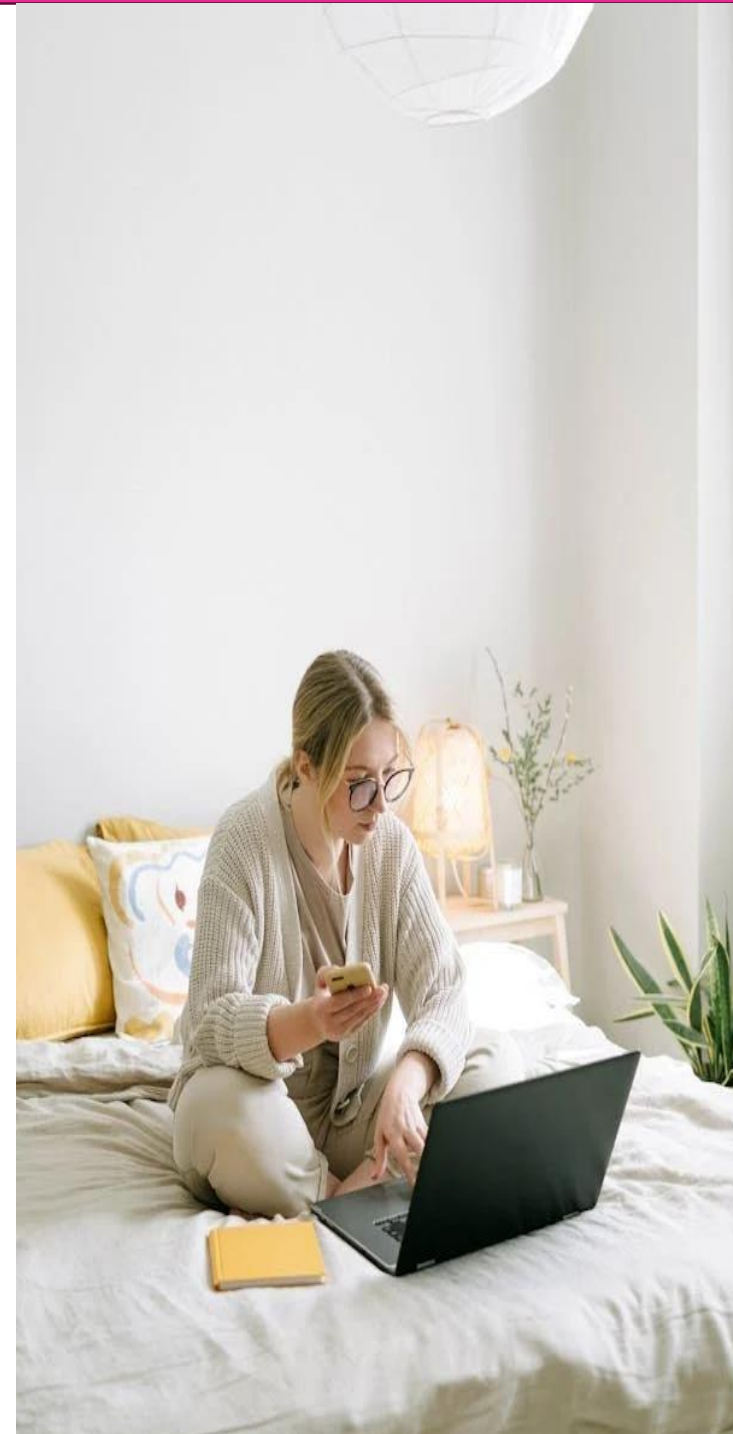
DevOps Engineers

IT Graduates and Freshers

Working Professionals

Backend Developers

Anyone aspiring for roles in .NET Development or
Microservices Engineering



Digital Marketing Training Program Certification Topics:

MODULE 1: Programming Fundamentals with C#

1.1 Introduction to .NET & C#

- CLR, CTS, CLS
- .NET architecture
- C# syntax, variables, data types
- Operators, loops, conditional statements

1.2 Object-Oriented Programming (OOP)

- Classes, objects
- Constructors & destructors
- Encapsulation, inheritance, polymorphism
- Method overriding & overloading
- Interfaces & abstract classes

1.3 Advanced C# Concepts

- Collections & Generics
- Delegates & Events
- Anonymous methods
- Lambda expressions
- LINQ (Query, Lambda, Method syntax)
- Exception handling
- File handling (System.IO)

MODULE 2: .NET Framework / .NET Core

2.1 .NET Core Basics

- .NET 6/7 architecture
- Creating console applications
- Dependency Injection (DI)
- Appsettings configuration
- Logging

2.2 Entity Framework Core

- Code-first approach
- Migrations
- LINQ with EF
- CRUD operations
- Repository pattern
- Unit of Work pattern

MODULE 3: SQL Server (Back – end Database)

3.1 SQL Basics

- Tables, Views, Indexes
- Primary key, foreign key
- Constraints

3.2 SQL Queries

- SELECT, INSERT, UPDATE, DELETE
- Joins (Inner, Left, Right, Full)
- Group By, Having
- Sub-queries
- Stored Procedures
- Functions (Scalar & Table-valued)
- Triggers
- Cursors

3.3 Database Design

- Normalization
- ER diagrams
- Performance tuning
- Index optimization

MODULE 4: ASP .NET Core MVC

4.1 MVC Architecture

- Controllers
- Views (Razor)
- ViewModels
- Layouts, partial views

4.2 Web APIs

- REST architecture
- Creating Web API controllers
- Routing
- Attribute routing
- Model binding
- Filters
- Versioning
- Swagger documentation

4.3 Authentication & Authorization

- JWT authentication
- Role-based access
- Claims-based security

MODULE 5: Frontend Development

HTML5

- Tags, forms, semantic HTML
- Media elements

CSS3

- Flexbox
- Grid
- Animations
- Responsive design

Bootstrap

- Grid system
- Utilities
- Forms
- Components

JavaScript (ES6+)

- Variables, operators, loops
- Functions
- DOM manipulation

TypeScript (Optional but recommended)

TypeScript Syllabus (Specialized for Angular Development)

Module 1: Introduction to TypeScript

- What is TypeScript?
- Why TypeScript is essential for Angular
- Installing TypeScript
- TypeScript Compiler (tsc) and configuration
- tsconfig.json overview
- Writing your first TypeScript program

Module 2: Type System & Variables

- What is TypeScript?
- Why TypeScript is essential for Angular
- Installing TypeScript
- TypeScript Compiler (tsc) and configuration
- tsconfig.json overview
- Writing your first TypeScript program

Module 3: Functions in TypeScript

- Function types & return types
- Optional & default parameters
- Rest parameters
- Arrow functions
- Function overloading

Module 4: Object Oriented Programming(OOP)

- Classes & Objects
- Constructors
- Access modifiers (public, private, protected)
- Read only properties
- Getters & Setters
- Static methods & properties
- Inheritance & Method overriding
- Abstract classes
- Interfaces vs Classes

Module 5: Advanced TypeScript Concepts

- Generics
- Generic functions & classes
- Type guards
- keyof, typeof operators
- Mapped types
- Utility types (Partial, Pick, Omit, Readonly, Required)
- Decorators (Method, Property, Class)
- Namespaces & Modules

Module 6: Working with Arrays, Tuples & Objects

- Array types
- Multidimensional arrays
- Tuples & tuple operations
- Destructuring
- Spread & Rest operators

Module 7: Asynchronous TypeScript

- Promises
- async/await
- Fetch API in TypeScript
- Error handling
- Typed async functions

Module 8: TypeScript with Angular (Core Module)

- Angular architecture & TypeScript integration
- Components, Modules, Services with TypeScript
- Strong typing in Angular components
- TypeScript classes inside Angular
- Angular decorators
- Interfaces in Angular (Models)
- Type checking in template-driven & reactive forms
- Using TypeScript with RxJS (Observables, Subjects)

Module 9: TypeScript + Angular Project Structure

- Angular CLI & TypeScript config
- Creating models & interfaces for APIs
- Type-safe HTTP services
- Typed routing
- Type safety in State Management (NgRx or Signals)

Module 10: Best Practices & Deployment

- TypeScript coding standards
- Clean code for Angular
- Linting & Prettier for TypeScript
- Production build optimization
- Strict mode in Angular & TypeScript

MODULE 6: Front – End – Framework – Angular or React

Angular (Recommended for .NET Full Stack)

- Components
- Modules
- Routing
- Services
- Dependency injection
- Observables & RxJS
- HTTP client
- Forms (Template-driven & Reactive)
- State management (NgRx – optional)

React (Alternate Option)

- JSX
- Components
- Hooks
- Router
- Context API
- Axios API Calls

MODULE 7: MicroServices with .NET

7.1 Microservices Architecture

- Monolithic vs Microservices
- Domain-driven design
- Bounded context

7.2 Building Microservices in .NET Core

- Creating microservice projects
- API gateway (Ocelot)
- DTOs & models
- Services & repositories

7.3 Communication

- Synchronous communication (REST)
- Asynchronous communication
- Messaging systems (RabbitMQ / Azure Service Bus)

7.4 Service Discovery

- Consul / Eureka (if needed)

7.5 Containerization

- Docker installation
- Dockerfile creation
- Docker Compose

7.6 API Gateway

- Routing
- Aggregation
- Load balancing

MODULE 8: Cloud Deployment(Optional)

Azure Cloud Basics

- Web App deployment
- Azure SQL
- Azure API management
- Azure DevOps pipelines

MODULE 9: DevOps for .NET (Optional Enhancement)

- Git & GitHub
- CI/CD pipelines
- Docker
- Kubernetes basics

MODULE 10: Project Development

Final Real-Time Projects

- E-Commerce Web App
- Hospital Management System
- Inventory & Billing System
- Microservice-based Order + Payment Service

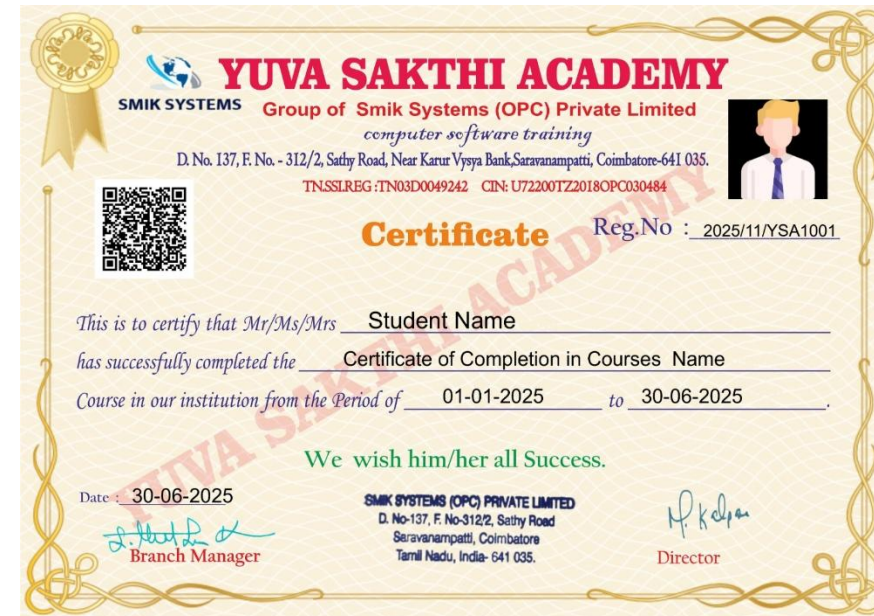
Possible Aspects of an IT-Focused Project

Our .NET with Microservices Training Program equips you with the skills to build scalable, enterprise-grade applications using C# and .NET Core. You will learn Microservices Architecture, API development, service communication, and event-driven design while working with essential tools like Docker, Kubernetes, RabbitMQ, Kafka, and Redis. The program includes hands-on training in ASP.NET Core, EF Core, CI/CD pipelines, cloud deployment using Azure or AWS, and best practices for logging, monitoring, and performance optimization. Through real-world projects, you will gain practical experience in designing, deploying, and managing microservices applications. You'll also receive expert-led career support to prepare for high-demand roles such as .NET Developer, Microservices Engineer, and Cloud Application Developer.



Yuva Sakthi Academy Certification

The **Yuva Sakthi Academy** Certification is a distinguished credential designed to validate the expertise and practical skills of individuals in the retail industry. This certification is awarded upon successful completion of our comprehensive training programs, which cover essential areas such as customer service excellence, sales techniques, and retail management. Participants gain hands-on experience and industry-recognized qualifications, setting them apart in the competitive retail job market. Our certification program not only enhances your professional profile but also equips you with the knowledge and skills needed to excel in various retail roles. By earning this certification, you demonstrate your commitment to excellence and readiness to contribute effectively to the retail sector. Whether you're seeking to advance your career or embark on a new journey in retail, the Yuva Sakthi Academy Certification is a valuable asset to support your career goals.



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