

START GOGING TODAY

A PROVEN PATH TO GET A JOB IN 6 TO 8 MONTHS OR LESS





course designer

I am a teacher and entrepreneur for the past 12 years, I am managing the Software development company Kangaroo Software PVT LTD and the best Software Education Institute SHIVA CONCEPT SOLUTION.I am very much passionate about teaching and helping students.

shiva gautam



PART 1: INTRODUCTION TO .NET CORE

1.Understanding .NET Framework and .NET Core

- Overview of .NET architecture.
- Differences between .NET Framework and .NET Core.
- Setting up the development environment.
- NET class library, explore nuget package manager
- ASP.NET Core vs ASP.NET MVC
- Explain Project & it's directory

3.C# OOPS

- What is OOPS
- Data Abstraction & Data Encapsulation
- Polymorphism, Constructor, Inheritance
- Interface & Abstract Class, sealed class
- Design Pattern in C#
- Dependancy Injection, Singleton Class, IS-A & HAS-A relationship

2.C# Programming Basics

- Control flow (if-else, loops).
- Switch Statement
- Array, Object Array

4.C# Advance topics

- C# Interview Q/A



• Syntax, data types, and variables.Operator & it's type

• Array, Single Dimension, Multi Dimension, Jagged

• String handling, string builder, string predefine method

• File Handling, File operations • Exception Handling & Custom Exception • Events, Delegate, type of delegate, Reflection • Collections & it's type, Multithreading • Generics, Asynchronous Programming • Memory Management using Garbage Collection IEnumerable & ICollection

PART 2: .NET CORE WEB DEVELOPMENT

1.ASP.NET Core MVC

- Creating web applications using the MVC pattern.
- Routing, controllers, and views. ViewBag and TempData, Session vs Cookies,
- Razor syntax.Razor Form, Model Object, HTML Helper class, HTML, CSS, JS, Bootstrap, Template Design, Navigation, Menu, Master page, child page, partial render, validation using JS
- Communicate data from view to controller & Controller to view
- Create Dynamic form using Model Object

2.Entity Framework Core

PART 3: ADVANCED .NET TOPICS

1.Dependency Injection and Middleware

- Understanding DI in ASP.NET Core.
- Custom middleware development.

2. Authentication and Authorization

.NET

• ORM (Object-Relational Mapping) with EF Core. • Database migrations and seeding. • LINQ queries..,CODE First, Data First, migration • SQL query, MS-SQL, MYSQL-DB, • Data validation, File uploading, AJAX operation • Database security, Reporting Services • Create Login form & registration form Create Admin Dashboard • Manage user login & logout • Data First Approach & Code First Approach

• Implementing authentication (JWT, OAuth). Role-based access control.

PART 4: .NET WEB API AND MICROSERVICES

1.Building RESTful APIs with ASP.NET Core

- Creating API endpoints. API Authentication
- Versioning and documentation.
- Test API under Swagger

PART 5:.NET TESTING AND DEPLOYMENT

1.Unit Testing with xUnit and Moq

- Writing unit tests.
- Mocking dependencies.

PART 6: .NET PERFORMANCE OPTIMIZATION AND MONITORING

1.Performance Profiling and Optimization

- Profiling tools (dotTrace, ANTS Profiler).
- Improving application performance.

2. Microservices Architecture

- Designing microservices.

2.Continuous Integration and Deployment (CI/CD)

2.Monitoring and Logging

- Application insights.
- Logging frameworks (Serilog, NLog).



• Communication patterns (REST, gRPC).

• Setting up CI/CD pipelines (Azure DevOps, GitHub Actions). • Deploying to Azure or other cloud platforms.

PART 13: MS-SQL DATABASE INTEGRATION

1.Introduction to MS-SQL

- Overview of MS-SQL database management system
- Installing MS-SQL server and client

2.SQL Basics

- Understanding SQL syntax
- CRUD operations (Create, Read, Update, Delete)
- Data definition language (DDL) and data manipulation language (DML) commands.
- SQL Operator In, NOT IN, Between, Not Between, ANY, ALL, LIKE, etc.

3.Database Design and Modeling

- Entity-relationship modeling
- Normalization and denormalization

4.Advance database Query

- Join, Set Operator
- Where, Group by, Order by, Having
- Procedure, Trigger, Cusrsor



.NET DESKTOP APPLICATIONS AND WPF

1.Windows Presentation Foundation (WPF)

- Creating desktop applications.
- XAML and data binding.

PART 5:.NET TESTING AND DEPLOYMENT

1.Unit Testing with xUnit and Moq

- Writing unit tests.
- Mocking dependencies.

PART 6: ADDITIONAL TECH SKILLS

1.Artificial Intelligence (AI)

- Basics of AI and machine learning.
- chat gpt, prompt engineering

3. Git, GitHub & Docker:

- Version control using Git.
- Collaborating on GitHub repositories.
- What is Docker, Docker commands

2. Microservices Architecture

- Designing microservices.

2.Advanced .NET Concepts

- Asynchronous programming (async/await).
- Reflection and attributes.
- Design patterns (singleton, factory, observer).

2.Cloud Computing (AZURE)

- Setting up an AZURE account.
- Deploying applications on AZURE .

4.Deployment:

- Deploying web applications to production servers.

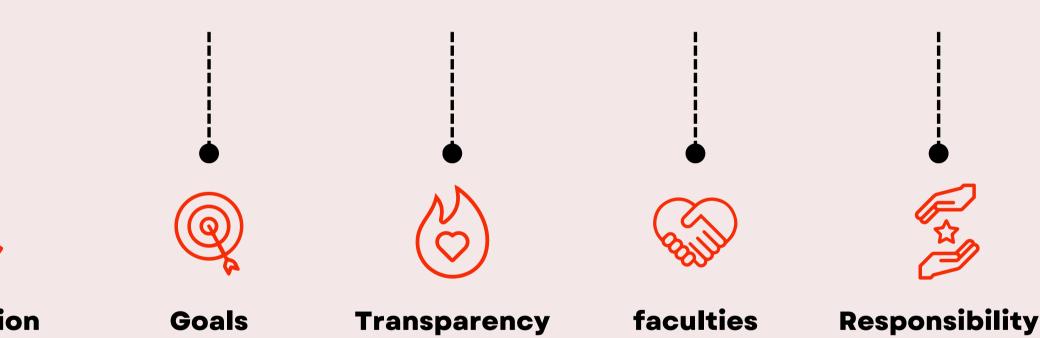


• Communication patterns (REST, gRPC).

• Continuous integration and continuous deployment (CI/CD) pipelines.



They're the heart of our institute, These values are the foundation of our daily operations, shaping our actions to provide an exceptional learning experience and empower students in programming.



Innovation

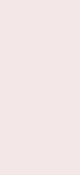
We encourage creative thinking and new ideas in our teaching methods and curriculum to keep learning dynamic and engaging.

We help you set clear objectives and work with you to achieve them, ensuring your progress and success.

We believe in open communication and clarity in all our processes, keeping you informed every step of the way.

Our instructors are experienced professionals dedicated to providing quality education and guidance.

We take our role seriously in nurturing your skills and ensuring a supportive learning environment.





You can rely on us for honest guidance, fair practices, and a commitment to your educational journey.



We assist you in securing rewarding opportunities after completing your program, bridging the gap between education and employment.





about Shiva concept solution

Shiva Concept Solution is the top software training center in Indore, India. Since 2013, we have taught more than 50,000 students with high-quality instruction.

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