KOENIG
step forward

KOENIG SOLUTIONS · COURSE OUTLINE

ASP.NET Core & Angular: Web APIs & Azure Deploy

Learn to build web applications with ASP.NET Core and Angular, connect them through APIs, and deploy them to Azure.

5	19
MODULES	TOPICS

COURSE OVERVIEW

This course covers the fundamentals of web application development and client-server architecture using ASP.NET Core and Angular. It looks at building a backend API with ASP.NET Core, including data models, controllers and authentication, alongside building a frontend UI with Angular using components, services, routing and styling. It then covers connecting the backend and frontend through APIs, including consuming them and handling errors. Finally, it addresses deployment and hosting options, including hosting on Azure, securing the production environment and setting up continuous deployment with Git and Azure DevOps.

WHO THIS COURSE IS FOR

Backend Developers | **Frontend Developers** | **Full Stack Developers** | **Web Developers** | **DevOps Engineers**

LEARNING OBJECTIVES

- Explain client-server architecture and web application concepts
- Configure a new ASP.NET Core project and data model
- Implement controllers, actions and API authentication
- Configure a new Angular project with components and services
- Implement routing and navigation in Angular applications
- Apply CSS styling to an Angular user interface
- Develop APIs that connect an Angular frontend and ASP.NET Core backend
- Deploy and host applications on Azure with continuous deployment

COURSE SYLLABUS

5 Modules, 19 Topics

01

Introduction to Web Application Development

TOPICS

What is a web application? · Client-server architecture · Introduction to ASP.NET Core and Angular

02

Building the Backend API with ASP.NET Core

TOPICS

- Setting up a new ASP.NET Core project
- Creating a data model
- Implementing controllers and actions
- Securing the API with authentication and authorization

03

Building the Frontend UI with Angular

TOPICS

Setting up a new Angular project · Creating components and services · Implementing routing and navigation · Styling the UI with CSS

04

Connecting the Backend and Frontend with APIs

TOPICS

Introduction to APIs · Creating APIs with ASP.NET Core · Consuming APIs with Angular · Handling errors and exceptions

05

Deployment and Hosting

TOPICS

- Deployment options for ASP.NET Core and Angular applications
- Hosting the application on Azure
- Configuring and securing the production environment
- Continuous deployment with Git and Azure DevOps

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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