

AZ-2002: Develop an ASP.NET Core web app that consumes an API

Duration: 4 Hours (1/2 Day)

Overview

The AZ-2002: Develop an ASP.NET Core web app that consumes an API course is designed to provide learners with the skills and knowledge needed to create web applications using ASP.NET Core that can interact with APIs. This course is divided into three modules, each focusing on different aspects of web development and API consumption. In Module 1, learners are introduced to ASP.NET Core APIs, the use of Swashbuckle to document APIs, and how to interact with an API through practical exercises. This module lays the foundation for understanding how APIs work within the ASP.NET Core framework. Module 2 delves into implementing HTTP operations within ASP.NET Razor Pages, exploring .NET Core HTTP clients, and providing hands-on experience with performing HTTP operations in a web application context. Finally, Module 3 focuses on rendering API responses effectively using Razor Pages. Learners will explore the project structure, syntax of Razor Pages, and apply their knowledge in a practical exercise that emphasizes displaying API data within a web page. This course will help learners to build robust and interactive web applications, enhancing their ability to consume APIs and present data seamlessly to end-users.

Audience Profile

Learn to build dynamic web applications using ASP.NET Core and Razor Pages. Ideal for developers and IT professionals looking to enhance their skill set.

- ASP.NET Developers
- Web Developers seeking to transition to ASP.NET Core
- Full Stack Developers
- Software Engineers
- IT Professionals interested in web application development
- Technical Leads overseeing web development projects
- Backend Developers wanting to learn front-end integration with Razor Pages
- Computer Science and Software Engineering Students specializing in web technologies
- Programmers looking to upgrade their skills with modern web development practices
- DevOps Engineers who require understanding of ASP.NET Core applications for CI/CD processes

Course Syllabus

Chapter 1: Interact with an ASP.NET Core minimal API

- Introduction
- Explore ASP.NET Core APIs
- Document an API by using Swashbuckle
- Exercise - Interact with an API
- Knowledge check
- Summary

Chapter 2: Implement HTTP operations in ASP.NET Razor Pages

- Introduction
- Explore HTTP clients in .NET Core
- Perform HTTP operations in Razor Pages
- Exercise - Implement HTTP operations in Razor Pages
- Knowledge check
- Summary

Chapter 3: Render API responses in ASP.NET Core Razor Pages

- Introduction
- Explore Razor Pages project structure
- Discover Razor Pages syntax
- Exercise - Render API responses in Razor Pages
- Knowledge check
- Summary