ASP.NET Web API Essentials Using C#   (2 Days)

Overview

This ASP.NET Web API Essentials Using C# training class provides a practical hands-on introduction to developing and consuming ASP.NET Web API services using C# and Visual Studio. This Web development framework from Microsoft makes it easy to create HTTP services that can reach a broad range of clients. It is an excellent platform for creating RESTful Web applications.

COURSE BENEFITS

- Gain an understanding of what ASP.NET Web API is and why it is useful
- Implement HTTP services using Web API and Visual Studio
- Consume HTTP services using both jQuery and the ASP.NET Web API client library
- Handle different media formats and content variations in Web API services
- Understand routing and binding in Web API
- Perform validation of request data

COURSE OUTLINE

Introduction to ASP.NET Web API
ASP.NET Web API
Representational State Transfer
REST and Web API
HTTP Services Using Web API
Using Fiddler
Web API vs. WCF

Web API and HTTP
HTTP Response Codes
HttpResponseException
Implementing POST
Implementing PUT
Implementing DELETE

Media Formatters and Content Negotiation

Internet Media Types

Media Formatters

JSON and XML Formatters

Content Negotiation

Accept and Content-Type Headers

Using the Query String

Custom Request Headers

Serialization

BSON Serialization

JavaScript Clients

Document Object Model

jQuery

Sending AJAX Requests

Implementing a Client

Binding, Validation and Routing

Reading Raw HTTP Requests

Route Data, Query String and Request Body

Binding to Simple Types

Binding to Complex Types

Validation Using Data Annotations

Routing in ASP.NET Web API

Using Default Routes

NET Clients

Web API Client Libraries

HttpClient

Issuing GET Requests

Issuing POST Requests

Other Requests