From Zero to Web API Using MVC

Description

If you need other developers to access data within your private domain, Web APIs are the best way to accomplish this. Using Web APIs, you write code behind a firewall to access your data and expose just what you want to the outside world. With Microsoft you can write Web APIs using the popular MVC paradigm and this is what you are going to learn in this course. Even if you have never created a Web API before, this course guides you step-by-step through the entire process.

In this course you are provided with an overview of Web APIs in general. You then build an MVC Web API project and learn to consume Web APIs using Postman and Swagger. You learn how to configure the project to return different types of data such as JSON and XML. The basics of routing and how to add logging and exception handling is illustrated. You then build a set of CRUD APIs to allow a developer to interact with your database. You are going to see how to call your APIs via JavaScript/jQuery and how CORS is added to allow cross-domain access. Finally, the basics of securing your Web APIs is covered.

All the demos you are shown during this course are backed up with a set of labs for you to perform. Walking through these labs step-by-step ensures that you understand the concepts illustrated in each lesson. You are going to see approximately 88 demos, be asked over 65 questions, and perform over 75 hands-on labs.

Join Paul D. Sheriff, one of the best instructors in the industry, on your journey to becoming a C# Web API developer using MVC.

Audience

If you are a C# web developer, at some point you are probably going to need Web APIs. If you are a front-end developer using Angular, React, JavaScript, jQuery, etc.

you should be familiar with how to create Web APIs so you can consume them effectively. If you are already developing Web APIs using MVC, you are sure to learn something new in this course. If you are a development manager or a QA person who workings with developers creating Minimal Web APIs, after watching this course you will be better equipped to work with those developers.

Course Objectives

By the end of this course, you will be able to create a CRUD set of APIs, know how to call them using PostMan, Swagger and JavaScript/jQuery. You will know how to return JSON and/or XML, understand the basics of routing, logging, and exception handling.

- What is a Web API?
- Build a Web API Project
- Use PostMan and Swagger to Test API Calls
- Configure your Web API using Config Classes
- Determine the Return Type to Use
- Format Data as JSON or XML
- Setup Web API Routes
- Add Logging to your Web API Calls
- Add Exception Handling to your Web API Calls
- Develop a Complete Set of CRUD APIs
- Call your Web APIs from JavaScript/jQuery
- Add CORS to Allow Cross-Domain Calls
- The Basics of Securing Web APIs

Prerequisites

To get the most out of this course, I assume you are very familiar with the C# language, Visual Studio or Visual Studio Code. You should also have a basic familiarity with MVC and web programming.

Hardware/Software Requirements

A computer must be supplied by the student with the following technologies installed.

- Visual Studio 2022 or later
- or Visual Studio Code V1.7 or later
- .NET 6.x or later
- SQL Server (Developer Edition or higher) or SQL Server Express

Keywords

C#

C# MVC

C# MVC Web API

C Sharp

C Sharp MVC

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CSharp

CSharp MVC

CSharp MVC Web API

ASP.NET

ASP.NET MVC

ASP.NET MVC Web API

Web API

Web API MVC

MVC

MVC Web API

Model-View-Controller

Model View Controller

Computer Programming

Web Development

Web Developer

Development

Developer