

Building Your First ASPNET Core Web API

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C# 11 and .NET 7 - Modern Cross-Platform Development Fundamentals - Mark J. Price 2022-11-08
An accessible guide for beginner-to-intermediate programmers to concepts, real-world applications, and latest features of C# 11 and .NET 7, with hands-on exercises using Visual Studio 2022 and Visual Studio Code. Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features Explore the newest additions to C# 11, the .NET 7 class libraries, and Entity Framework Core 7 Create professional websites and services with ASP.NET Core 7 and Blazor Build your confidence with step-by-step code examples and tips for best practices Book Description Extensively revised to accommodate the latest features that come with C# 11 and .NET 7, this latest edition of our guide will get you coding in C# with confidence. You'll learn object-oriented programming, writing, testing, and debugging functions, implementing interfaces, and inheriting classes. Next, you'll take on .NET APIs for performing tasks like managing and querying data, working with the filesystem, and serialization. As you progress, you'll also explore examples of cross-platform projects you can build and deploy, such as websites and services using ASP.NET Core. Instead of distracting you with unnecessary graphical user interface code, the first eleven chapters will teach you about C# language constructs and many of the .NET libraries through simple console applications. In later chapters, having mastered the basics, you'll then build websites, web services, and browser apps using ASP.NET Core, the Model-View-Controller (MVC) pattern, and Blazor. C# 11 and .NET 7 - Modern Cross-Platform Development Fundamentals will give you a solid foundation to start building apps and services with confidence. By the end of this book, you'll be able to create rich web experiences and have a solid grasp of object-oriented programming that you can build upon. What you will learn Build rich web experiences using Blazor, Razor Pages, the Model-View-Controller (MVC) pattern, and other features of ASP.NET Core Build your own types with object-oriented programming Write, test, and debug functions Query and manipulate data using LINQ Integrate and update databases in your apps using Entity Framework Core models Build and consume powerful services using the latest technologies, including Web API and Minimal API For .NET 6 developers: C# 11 can be used with .NET 6, including features like raw string literals EF Core 7 targets .NET 6, so you can benefit from its new features like ExecuteUpdate and ExecuteDelete for more efficient data modifications Who this book is for This book is primarily for beginners, but intermediate-level C# and .NET programmers who have worked with C# in the past and want to catch up with the changes made in the past few years will also find plenty of useful information in it. Prior exposure to C# or .NET is not a prerequisite, but you should have a general understanding of programming before you jump in. If you already have some C# and .NET skills and want to focus on developing apps, we recommend that you pick up Mark's other .NET book, Apps and Services with .NET 7, instead.

Microservices Communication in .NET Using gRPC - Fiodar Sazanavets 2022-02-11

Learn how to implement gRPC on the .NET platform step by step and cover how to use gRPC on .NET, including fundamentals, use cases, and best practices Key Features Explore all aspects of gRPC implementation on .NET, from the most basic features to advanced ones Discover best practices for using gRPC to make sure that your applications are as efficient and as scalable as possible Identify when gRPC is the best tool for the job and when it isn't Book Description Explore gRPC's capabilities for faster communication between your microservices using the HTTP/2 protocol in this practical guide that shows

you how to implement gRPC on the .NET platform. gRPC is one of the most efficient protocols for communication between microservices that is also relatively easy to implement. However, its official documentation is often fragmented and .NET developers might find it difficult to recognize the best way to map between C# data types and fields in gRPC messages. This book will address these concerns and much more. Starting with the fundamentals of gRPC, you'll discover how to use it inside .NET apps. You'll explore best practices for performance and focus on scaling a gRPC app. Once you're familiar with the inner workings of the different call types that gRPC supports, you'll advance to learning how to secure your gRPC endpoints by applying authentication and authorization. With detailed explanations, this gRPC .NET book will show you how the Protobuf protocol allows you to send messages efficiently by including only the necessary data. You'll never get confused again while translating between C# data types and the ones available in Protobuf. By the end of the book, you'll have gained practical gRPC knowledge and be able to use it in .NET apps to enable direct communication between microservices. What you will learn Get to grips with the fundamentals of gRPC and Protobuf Debug gRPC components inside a .NET application to locate and fix errors Understand gRPC best practices, such as performance enhancement Effectively translate between gRPC and native C# code by applying well-known types Secure gRPC communication inside a .NET application Discover how to monitor gRPC on .NET by applying logging and metrics Who this book is for This book is for .NET developers who are working with microservices and are looking for efficient solutions to facilitate communication between services using gRPC. Anyone who is familiar with microservices architecture and has knowledge of the fundamentals of .NET Core, but not necessarily of gRPC, will also find this book useful.

Expert ASP.NET Web API 2 for MVC Developers - Adam Freeman 2014-09-16

Web API 2 is the latest evolution of Microsoft's web services toolkit, which allows the creation of RESTful applications built on the ASP.NET platform. It provides a standards-based approach and a high-productivity development model that makes it easy to deliver services to a wide-range of clients, including mobile devices. This book puts Web API into context for the experienced MVC Framework developer and dives deep into the tools and techniques required to build Web API applications that integrate with the MVC Framework and shows you how to create single-page applications to consume them. Best-selling author Adam Freeman explains how to get the most from Web API 2 by building on the foundation of the MVC Framework and the ASP.NET platform. He starts with the nuts-and-bolts and shows you everything through to advanced features, going in-depth to give you the knowledge you need.

Mastering Visual Studio .NET - Ian Griffiths 2003

A detailed handbook for experienced developers explains how to get the most out of Microsoft's Visual Studio .NET, offering helpful guidelines on how to use its integrated development environment, start-up templates, and other features and tools to create a variety of applications, including Web services. Original. (Advanced)

ASP.NET Core 5 for Beginners - Andreas Helland 2020-12-18

Learn how to build web applications efficiently using ASP.NET Core 5 with the C# programming language and related frameworks Key Features Build web apps and services and cross-platform applications using .NET and C# Understand different web programming concepts with the help of real-world examples Explore

the new features and APIs in ASP.NET Core 5, EF Core, Visual Studio, and BlazorBook Description ASP.NET Core 5 for Beginners is a comprehensive introduction for those who are new to the framework. This condensed guide takes a practical and engaging approach to cover everything that you need to know to start using ASP.NET Core for building cloud-ready, modern web applications. The book starts with a brief introduction to the ASP.NET Core framework and highlights the new features in its latest release, ASP.NET Core 5. It then covers the improvements in cross-platform support, the view engines that will help you to understand web development, and the new frontend technologies available with Blazor for building interactive web UIs. As you advance, you'll learn the fundamentals of the different frameworks and capabilities that ship with ASP.NET Core. You'll also get to grips with securing web apps with identity implementation, unit testing, and the latest in containers and cloud-native to deploy them to AWS and Microsoft Azure. Throughout the book, you'll find clear and concise code samples that illustrate each concept along with the strategies and techniques that will help to develop scalable and robust web apps. By the end of this book, you'll have learned how to leverage ASP.NET Core 5 to build and deploy dynamic websites and services in a variety of real-world scenarios. What you will learnExplore the new features and APIs introduced in ASP.NET Core 5 and BlazorPut basic ASP.NET Core 5 concepts into practice with the help of clear and simple samplesWork with Entity Framework Core and its different workflows to implement your application's data accessDiscover the different web frameworks that ASP.NET Core 5 offers for building web appsGet to grips with the basics of building RESTful web APIs to work with real dataDeploy your web apps in AWS, Azure, and Docker containersWork with SignalR to add real-time notifications to your appWho this book is for This book is for developers who want to learn how to develop web-based applications using the ASP.NET Core framework. Familiarity with the C# language and a basic understanding of HTML and CSS is required to get the most out of this book.

Asp.net Core 2.0 Mvc & Razor Pages for Beginners - Jonas Fagerberg 2017-11-15

Want to learn how to build ASP.NET Core 2.0 MVC and Razor Page Web Applications? Prerequisites: C# (Intermediate level; including Generics, Reflection and Object-Oriented Programming (OOP)) HTML5/CSS3 (Basic knowledge) This book is primarily aimed at developers who want to learn how to build ASP.NET Core 2.0 MVC and Razor Page applications. You should be an intermediate level C# developer with some experience in HTML5 and CSS3. The C# language won't be explained in any detail. You will learn ASP.NET Core 2.0 by building three applications. The first application will be built using an empty template, the second with the MVC template, and the third with Razor Pages. The goal with the first basic application is to get you familiar with ASP.NET Core 2.0 by adding middleware and services one piece at a time. Then you will create a solution with three projects; the first project will be used to create a shared database with Entity Framework Core 2.0, the second project is a MVC application for the regular user interface, and the third project is an administrator user interface built with Razor Pages. This solution is a video course website, where users can register to gain access to video courses and administrators can add and modify course content and users. If you are already familiar with MVC 5 or ASP.NET Core 1.0/1.1, the content in this book can get you started with ASP.NET Core 2.0 in a fast, no-fluff way. It's important to mention that this book is practical and tactical, where you will learn as you progress through the modules and build real web applications in the process. To spare you countless pages of fluff (filler material), only valuable information, pertinent to the task at hand, is discussed. The benefit is a shorter and more condensed book, which will save you time and give you a more enjoyable experience. This experience is something you can put in your CV when applying for a job or a consultant position, or when negotiating a higher salary. Technologies, frameworks and languages you will use: Visual Studio 2017 ASP.NET Core 2.0 MVC and Razor Pages (new in ASP.NET 2.0) Services (To provide your own functionality as a reusable service) Middleware (To provide you own functionality to HTTP Request pipeline) Entity Framework (To crate and communicate with a database) View Component (To render data in the _Layout view with model data) Dependency Injection (To inject objects into constructors) Bootstrap (Used for styling and to create a responsive design) LINQ (To query the database) Tag Helper (to clean up the HTML and enable re-use) HTML Helper methods (to clean up your HTML and enable re-use) Partial views (to clean up your views and enable re-use) Bower and NuGet (To install necessary libraries) What you will implement: A web application from an empty template An MVC web application using a template An Razor Page web application using a

template A data-layer project referenced from the MVC and Razor Page applications I hope you love the book! Sincerely, Jonas Fagerberg Now click the Buy button and start reading the book.

ASP.NET Core for Jobseekers - Kemal Biring 2021-12-15

Learn to develop secure, optimized, well-designed web applications in ASP.NET Core and get ready for job interviews. KEY FEATURES ● Simplified demonstration of ASP.NET Core UI and service development, with expert-led implementation. ● In-depth coverage on async programming, application security, and performance optimization. ● Interview guide with extensive questions based on concepts and techniques around application development. DESCRIPTION ASP.NET Core for JobSeekers is a practical resource for application developers and web developers who want to advance their careers. This book teaches you how to use ASP.NET Core to create web applications without a prior understanding of web application development. We develop our first web application and demonstrate how to execute, debug, and deploy them using ASP.NET Core. We'll start by creating our first web pages with the Razor and then create a simple phonebook application. Next, you will be exposed to the MVC design pattern and explore the simplicity of developing web pages using Razor. Moving on, you learn to construct and consume restful services with ASP.NET Core. Concepts and techniques include async/await pattern, middlewares, programming a pipeline, redirecting requests, and intercepting requests and responses. This book also houses dependency injection techniques, action filters, accessing data using Entity Framework Core, and proven approaches for creating databases. Toward the end, you'll learn about some of the most important components, such as improving performance, choosing the right architecture for an application program, and answering a slew of interview questions about ASP.NET Core and application development. WHAT YOU WILL LEARN ● Learn to set up the application development environment around ASP.NET Core and other frameworks. ● Expert tips for debugging and deploying ASP.NET Core projects. ● Create UI applications with Razor and service APIs. ● Workaround middleware and filters for programming the ASP.NET Core pipeline. ● Create asynchronous programming code and configure dependency injection services. WHO THIS BOOK IS FOR If you're interested in building cross-platform, web, and cloud-native apps, you must learn ASP.NET Core and start building your programs. Readers should have basic knowledge of HTML and C#. TABLE OF CONTENTS 1. Introduction to ASP.NET Core 2. Setting Up the Development Environment 3. Running, Debugging, and Deploying ASP.NET Core Applications 4. Introduction to HTTP, HTML, CSS, and JavaScript 5. Developing ASP.NET Core web applications with Razor 6. Developing Restful services with ASP.NET Core 7. Async/await pattern and middleware in ASP.NET Core 8. Dependency injection and action filters in ASP.NET Core 9. State Management in ASP.NET Core 10. Introducing Accessing Data with ASP.NET Core 11. Optimizing ASP.NET Core Applications 12. Securing ASP.NET Core Applications 13. Introducing Software Architectures 14. Landing a job

Asp.net Core 1.1 for Beginners - Jonas Fagerberg 2017-05-24

Want to learn how to build ASP.NET Core 1.1 MVC Web Applications? Prerequisites: * C# (Intermediate level) * HTML5/CSS3 (Basic knowledge) This book is primarily aimed at developers who want to learn how to build ASP.NET Core 1.1 MVC Applications. You should be an intermediate level C# developer with some experience in HTML5 and CSS3. The book presupposes that you have a solid C# foundation since the language won't be explained in any detail. You will learn ASP.NET Core 1.1 by building two MVC applications. The first application will be built using an empty template. The goal is to get you familiar with ASP.NET Core 1.1 by adding middleware and services one piece at a time, building a basic application. Then you will build a second MVC application using a template that already contains support for MVC, Entity Framework Core, and user authentication. This application is a video course website, where users can register to gain access to video courses. If you are already familiar with MVC 5, the content in this book can get you started with ASP.NET Core 1.1 in a fast, no-fluff way. It's important to mention that this book is practical and tactical, where you will learn as you progress through the modules and build real web applications in the process. To spare you countless pages of fluff (filler material), only valuable information, pertinent to the task at hand, is discussed. The benefit is a shorter and more condensed book, which will save you time and give you a more enjoyable experience. The goal is to learn ASP.NET Core 1.1 by building two web applications, one from scratch and one from an existing template. This experience is something you can put in your CV when applying for a job or a consultant position, or when negotiating a higher

salary. Technologies, frameworks and languages you will use: * ASP.NET Core 1.1 MVC (The framework that you will use) * Services (To provide you own functionality as a reusable service) * Middleware (To provide you own functionality to HTTP Request pipeline) * Entity Framework (To crate and communicate with a database) * View Component (To render data in the _Layout view with model data) * Razor syntax (To include server-side code in views) * Bootstrap (Used for styling and to create a responsive design) * LINQ (To query the database) * Dependency Injection (To inject objects into constructors) * Tag Helper (to clean up the HTML and enable re-use) * HTML Helper methods (to clean up your HTML and enable re-use) * Bower/NuGet (To install necessary front-end/back-end libraries) What you will implement: * Implement a web application from an empty template. * Implement a web application from an existing template. * Create a "real world" code-first database using Entity Framework Core. * Add and modify models, views and controllers to perform CRUD operations against the database. * Use client-side and server-side validation. * Secure the controllers, actions and view content with authorization and roles. * Styling HTML with CSS and Bootstrap. * Create a responsive website. * Register users with the site. * Manage users and their video courses. I hope you love the book! Sincerely, Jonas Fagerberg Now click the Buy button and start reading the book.

Professional ASP.NET MVC 1.0 - Rob Conery 2009-07-01

This book begins with you working along as Scott Guthrie builds a complete ASP.NET MVC reference application. He begins NerdDinner by using the File->New Project menu command within Visual Studio to create a new ASP.NET MVC Application. You'll then incrementally add functionality and features. Along the way you'll cover how to create a database, build a model layer with business rule validations, implement listing/details data browsing, provide CRUD (Create, Update, Delete) data form entry support, implement efficient data paging, reuse UI using master pages and partials, secure the application using authentication and authorization, use AJAX to deliver dynamic updates and interactive map support, and implement automated unit testing. From there, the bulk of the rest of the book begins with the basic concepts around the model view controller pattern, including the little history and the state of the MVC on the web today. We'll then go into the ways that MVC is different from ASP.NET Web Forms. We'll explore the structure of a standard MVC application and see what you get out of the box. Next we dig deep into routing and see the role URLs play in your application. We'll deep dive into controllers and views and see what role the Ajax plays in your applications. The last third of the book focuses entirely on advanced techniques and extending the framework. In some places, we assume that you're somewhat familiar with ASP.NET WebForms, at least peripherally. There are a lot of ASP.NET WebForms developers out there who are interested in ASP.NET MVC so there are a number of places in this book where we contrast the two technologies. Even if you're not already an ASP.NET developer, you might still find these sections interesting for context, as well as for your own edification as ASP.NET MVC may not be the web technology that you're looking for.

ASP. NET Web API and Angular 2 - Valerio de Sanctis 2016-10-31

The framework of choice to build reactive, feature-rich Single Page Applications that just workAbout This Book*Learn how to design Single Page Applications (SPAs) with the latest versions of the popular frameworks Angular 2 and ASP.NET Web API*An explicit focus on understanding how the two tools fit together gives this book a unique insight on how to make SPAs for you and your clients that just work*This book covers all the major topics you need to create SPAs with ASP.NET Web API and Angular 2: routing, creating clean URLs, handling data (OData), and authenticationWho This Book Is ForThis book is for seasoned ASP.NET developers who already know how to use ASP.NET Web API and AngularJS, but want to blend them together to craft a production-ready SPA.What You Will Learn*Get to know the MVC 6 core aspects such as Model and Web API Controller*Gain the required resources and configure the MVC 6 interface*See how to client-route requests*Set-up the data model using entity framework*Extend the client controllers*Secure your application against various security threatsIn DetailFor most developers, writing code is a balance between maintainability and productivity-how quickly can you write it versus how much more you have to write in the future. Writing APIs goes some way to striking a balance, as you can have an API that feeds data from your back-end to front-end service for consumption. Now, this front-end can change to a mobile app, a website, desktop app, but what you do at the back doesn't change and remains ASP.NET Web API.This book focuses on blending and connecting ASP.NET Web API and AngularJS. We'll

guide you through building a fully-featured, potentially shippable SPA project with all its core aspects in place: readable URIs, OData retrieval, authentication patterns, RESTful interfaces, and more.By the end of the book, you will be able to make impressive SPAs using ASP.NET Web API and Angular 2.This book focuses about blending/connecting together the two topic technologies: ASP.NET/WebAPI and AngularJS. The book aims to be a guide to the readers throughout by building a fully-featured, potentially shippable SPA project with all its core aspects in place: readable URIs, OData retrieval, authentication patterns, RESTful interfaces and more.

Building Web Applications with Visual Studio 2017 - Philip Japikse 2017-07-08

Learn how to build web applications from three Microsoft MVPs. After building the data application layer using Entity Framework Core and a RESTful service using ASP.NET Core, you will then build the client side web application three ways: first, using ASP.NET Core, then using Angular 2, and, finally, using React. You will be able to compare and contrast these UI frameworks and select the best one for your needs. .NET Core is a complete rewrite of the popular .NET and its related frameworks. While many concepts are similar between .NET Core and the .NET 4.6 framework, there are revolutionary changes as well, including updates to Entity Framework Core and ASP.NET Core. The first section of this book covers the three main parts of building applications with C#: Entity Framework, ASP.NET Core Services, and ASP.NET Core Web Applications. There is also an explosion in popularity of JavaScript frameworks for client side development, and the authors cover two of the most popular UI frameworks. Start with TypeScript for developing clean JavaScript, along with a client side build tool such as Gulp, Grunt, and WebPack. Using the same data access layer and RESTful service from the .NET Core application, you can rebuild the UI using Angular 2. Then, repeat the process using React, for a true comparison of building client side applications using ASP.NET Core, Angular 2, and React. What You'll Learn Understand the fundamentals of .NET Core and what that means to the traditional .NET developer Build a data access layer with Entity Framework Core, a RESTful service with ASP.NET Core MVC, and a website with ASP.NET Core MVC and Bootstrap Automate many build tasks with client side build utilities Who This Book Is For Intermediate to advanced .NET developers

Modern API Design with ASP.NET Core 2 - Fanie Reynders 2018-03-07

Use ASP.NET Core 2 to create durable and cross-platform web APIs through a series of applied, practical scenarios. Examples in this book help you build APIs that are fast and scalable. You'll progress from the basics of the framework through to solving the complex problems encountered in implementing secure RESTful services. The book is packed full of examples showing how Microsoft's ground-up rewrite of ASP.NET Core 2 enables native cross-platform applications that are fast and modular, allowing your cloud-ready server applications to scale as your business grows. Major topics covered in the book include the fundamentals and core concepts of ASP.NET Core 2. You'll learn about building RESTful APIs with the MVC pattern using proven best practices and following the six principles of REST. Examples in the book help in learning to develop world-class web APIs and applications that can run on any platform, including Windows, Linux, and MacOS. You can even deploy to Microsoft Azure and automate your delivery by implementing Continuous Integration and Continuous Deployment pipelines. What You Will Learn Incorporate automated API tooling such as Swagger from the OpenAPI specification Standardize query and response formats using Facebook's GraphQL query language Implement security by applying authentication and authorization using ASP.NET Identity Ensure the safe storage of sensitive data using the data protection stack Create unit and integration tests to guarantee code quality Who This Book Is For Developers who build server applications such as web sites and web APIs that need to run fast and cross platform; programmers who want to implement practical solutions for real-world problems; those who want in-depth knowledge of the latest bits of ASP.NET Core 2.0

Designing Evolvable Web APIs with ASP.NET - Glenn Block 2014-03-13

Design and build Web APIs for a broad range of clients—including browsers and mobile devices—that can adapt to change over time. This practical, hands-on guide takes you through the theory and tools you need to build evolvable HTTP services with Microsoft's ASP.NET Web API framework. In the process, you'll learn how design and implement a real-world Web API. Ideal for experienced .NET developers, this book's sections on basic Web API theory and design also apply to developers who work with other development

stacks such as Java, Ruby, PHP, and Node. Dig into HTTP essentials, as well as API development concepts and styles Learn ASP.NET Web API fundamentals, including the lifecycle of a request as it travels through the framework Design the Issue Tracker API example, exploring topics such as hypermedia support with collection+json Use behavioral-driven development with ASP.NET Web API to implement and enhance the application Explore techniques for building clients that are resilient to change, and make it easy to consume hypermedia APIs Get a comprehensive reference on how ASP.NET Web API works under the hood, including security and testability

C# 7 and .NET Core: Modern Cross-Platform Development - Mark J. Price 2017-03-24

Modern Cross-Platform Development About This Book Build modern, cross-platform applications with .NET Core Get up to speed with C#, and up to date with all the latest features of C# 7 Start creating professional web applications with ASP.NET Core Who This Book Is For This book is targeted towards readers who have some prior programming experience or have a science, technology, engineering, or mathematics (STEM) background, and want to gain a solid foundation with C# and to be introduced to the types of applications they could build and will work cross-platform on Windows, Linux, and macOS. What You Will Learn Build cross-platform applications using C# 7 and .NET Core Explore ASP.NET Core and learn how to create professional web applications Improve your application's performance using multitasking Use Entity Framework Core and find out how to build code-first databases Master object-oriented programming with C# to increase code reuse and efficiency Familiarize yourself with cross-device app development using the Universal Windows Platform and XAML Query and manipulate data using LINQ Protect your data by using encryption and hashing In Detail If you want to build powerful cross-platform applications with C# 7 and .NET Core, then this book is for you. First, we'll run you through the basics of C#, as well as object-oriented programming, before taking a quick tour through the latest features of C# 7 such as tuples, pattern matching, out variables, and so on. After quickly taking you through C# and how .NET works, we'll dive into the .NET Standard 1.6 class libraries, covering topics such as performance, monitoring, debugging, serialization and encryption. The final section will demonstrate the major types of application that you can build and deploy cross-device and cross-platform. In this section, we'll cover Universal Windows Platform (UWP) apps, web applications, mobile apps, and web services. Lastly, we'll look at how you can package and deploy your applications so that they can be hosted on all of today's most popular platforms, including Linux and Docker. By the end of the book, you'll be armed with all the knowledge you need to build modern, cross-platform applications using C# and .NET Core. Style and approach This book takes a step-by-step approach and is filled with exciting projects and fascinating theory. It uses three high-impact sections to equip you with all the tools you'll need to build modern, cross-platform applications using C# and .NET Core.

Practical ASP.NET Web API - Badrinarayanan Lakshmiraghavan 2013-08-19

Practical ASP.NET Web API provides you with a hands-on and code-focused demonstration of the ASP.NET Web API in action. From the very beginning, you'll be writing working code in order to see best practices and concepts in action. As the book progresses, the concepts and code will become more sophisticated. Beginning with an overview of the web service model in general and Web API in particular, you'll progress quickly to a detailed exploration of the request binding and response formatting that lie at the heart of Web API. You'll investigate various scenarios and see how they can be manipulated to achieve the results you need. Later in the book more sophisticated themes will be introduced that will set your applications apart from the crowd. You'll learn how you can validate the request messages on arrival, how you can create loosely coupled controllers, extend the pipeline processing to compartmentalize your code for security and unit testing before being put onto a live hosting server. What you'll learn What ASP.NET Web API is and how it can be used effectively Ways to optimize your code for readability and performance What controller dependencies are and why they matter How to maintain robust security across your projects Reliable best-practices for using Web API in a professional context Who this book is for The book is ideal for any .NET developer who wants to learn how the ASP.NET Web API framework works in a realistic setting. A good working knowledge of C# and the .NET framework and a familiarity with Visual Studio are the only prerequisites to benefit from this book Table of Contents Building a Basic Web API Debugging HTTP Formatting CLR Objects into HTTP Response Customizing Response Binding HTTP Request into CLR

Objects Validating Request Managing Controller Dependencies Extending Pipeline Hosting ASP.NET Web API Securing ASP.NET Web API Consuming ASP.NET Web API Building Performant Web API

.NET Standard 2.0 Cookbook - Fiqri Ismail 2018-05-18

Get the most out of .NET framework using standard libraries and create a .NET Standard 2.0 library from scratch Key Features Write code once and share within .NET ecosystem in Windows, Linux and macOS Give your .NET Libraries a common framework in cloud and on premise with the latest .NET Standard 2.0 Build a wide range of applications from Mobile with Xamarin to Web with ASP.NET Book Description The .NET Standard is a standard that represents a set of APIs that all .NET platforms have to implement, making it easy for developers to access and use one common library for their development needs. This book begins with a quick refresher, helping you understand the mechanics of the new standard and offering insight into how it works. You'll explore the core library concepts, such as working with collections, configurations, I/O, security, and multithreading. You'll explore the iOS and Android libraries of Xamarin and we'll guide you through creating a .NET Standard 2.0 library, which you'll use with both Android and iOS applications. In the final chapters, you'll learn the various debugging and diagnostics tools to deliver quality libraries and create a NuGet package of the .NET Standard 2.0 library. By the end of this book, you'll be able to expand your current workflow to various .NET flavors and have the essential skills to create a .NET Standard 2.0 library from scratch to package and deliver it to the world. What you will learn Create a .NET Standard 2.0 library Use System.IO within the .NET Standard 2.0 Make use of your legacy .NET libraries with the new .NET Core standard Explore the thread support to create a multithreaded .NET Standard 2.0 library Create a .NET Standard 2.0 library and use it with an Android and iOS application Implement various Visual Studio 2017 diagnostics and debugging tools Create a NuGet Package and submit the package to the NuGet Package Manager Use Visual Studio 2017 azure tools to deploy the application to Azure Test and deliver a .NET Standard 2.0 library Who this book is for This book is for .NET developers who are looking to build dynamic applications with the latest .NET Standard. C# knowledge is required.

ASP.NET Core Web API - Valerio De Sanctis 2023-01-31

Create fully featured APIs with the ASP.NET Core framework! This practical guide shows you how to design and implement APIs using the REST and GraphQL standards. ASP.NET Core Web API is a practical beginner's guide to creating your first web APIs using ASP.NET Core. In it, you'll develop an API that feeds web-based services, including websites and mobile apps, for a board games application. Structured just like a real-world development project, each chapter introduces a new feature request. You'll build your API with an ecosystem of ASP.NET Core tools that help simplify everything from setting up your data model to generating documentation. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

ASP.NET Web API 2 Recipes - Filip Wojcieszyn 2014-08-07

ASP.NET Web API 2 Recipes provides you with the code to solve a full range of Web API problems and question marks that you might face when developing line-of-business applications. ASP.NET Web API 2 Recipes gives you an in-depth explanation for each of these scenarios and shows you how to use Web API with a vast array of .NET application development tools and external libraries, to solve common business problems. Find out how you can build custom web services with ASP.NET Web API more efficiently than ever.

Entity Framework Core in Action - Jon Smith 2018-07-15

Summary Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. Following the crystal-clear explanations, real-world examples, and around 100 diagrams, you'll discover time-saving patterns and best practices for security, performance tuning, and unit testing. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology There's a mismatch in the way OO programs and relational databases represent data. Entity Framework is an object-relational mapper (ORM) that bridges this gap, making it radically easier to query and write to databases from a .NET application. EF creates a data model that matches the structure of your OO code so you can query and write to your database using standard LINQ commands. It will even automatically generate the model from your database schema. About the Book Using crystal-clear explanations, real-world examples, and around 100 diagrams, Entity Framework Core in

Action teaches you how to access and update relational data from .NET applications. You'll start with a clear breakdown of Entity Framework, long with the mental model behind ORM. Then you'll discover time-saving patterns and best practices for security, performance tuning, and even unit testing. As you go, you'll address common data access challenges and learn how to handle them with Entity Framework. What's Inside Querying a relational database with LINQ Using EF Core in business logic Integrating EF with existing C# applications Applying domain-driven design to EF Core Getting the best performance out of EF Core Covers EF Core 2.0 and 2.1 About the Reader For .NET developers with some awareness of how relational databases work. About the Author Jon P Smith is a full-stack developer with special focus on .NET Core and Azure. Table of Contents Part 1 - Getting started Introduction to Entity FrameworkCore Querying the database Changing the database content Using EF Core in business logic Using EF Core in ASP.NET Core web applications Part 2 - Entity Framework in depth Configuring nonrelational properties Configuring relationships Configuring advanced features and handling concurrency conflicts Going deeper into the DbContext Part 3 - Using Entity Framework Core in real-world applications Useful software patterns for EF Core applications Handling database migrations EF Core performance tuning A worked example of performance tuning Different database types and EF Core services Unit testing EF Core applications Appendix A - A brief introduction to LINQ Appendix B - Early information on EF Core version 2.1 [Xamarin with Visual Studio](#) - Alessandro Del Sole 2022-06-14

Learn how to build cross-platform mobile apps from a single shared codebase KEY FEATURES ● Covers fundamental and advanced aspects of multi-platform mobile development ● Revisit the fundamentals of .NET and C# to create modern native apps more quickly ● Check out tips and advice on getting started as a successful mobile developer DESCRIPTION For any mobile developer, it's clear that Xamarin knowledge is vital, thanks to the reintroduction of .NET MAUI. This book provides the reader with complete hands-on experience in designing cross-platform mobile applications with Xamarin, C#, and .NET. The book discusses the importance of cross-platform mobile app development and the benefits of learning Xamarin. The book delivers a quick lesson on C# and Visual Studio to implement all of the knowledge gained in this book into your first mobile application. In the second half of the book, you'll learn to start from scratch using Xamarin and create mobile apps in C#. It explains how to utilise Visual Studio as the development environment, design the user interface using the XAML markup language, organise common controls into layouts, and create multi-page applications with navigation and various pages. This includes creating reusable resources, such as styles and templates, and the use of local and remote databases for data manipulation. In addition, the book offers expert advice on the requirements of a standard mobile application, such as handling network connection, battery level, and safeguarding data in the device's secure storage. WHAT YOU WILL LEARN ● Learn every aspect of Xamarin to create cross-platform mobile applications. ● Refresh .NET, C#, and Visual Studio skills required for mobile development. ● Build UI with XAML, views, and layouts, including navigation. ● Use reusable resources, data-oriented coding, multimedia support, and debug code. ● Explore advanced programming patterns and ways to improve performance. ● Tips and answers to help you land a job as a mobile developer. WHO THIS BOOK IS FOR This book is intended for beginners, aspiring mobile developers, .NET users, Visual Studio users, and application developers eager to design and build mobile apps compatible with numerous platforms. This book will also refresh your knowledge of .NET and C# so you can begin Xamarin development rapidly. TABLE OF CONTENTS 1. The importance of mobile app development 2. Xamarin and Microsoft in the mobile app market 3. Introducing .NET and Visual Studio 4. The C# programming language 5. Building apps with Xamarin and Xamarin.Forms 6. Organizing the User Interface with layouts 7. Understanding common views 8. Pages and navigation 9. Resources and Data Binding 10. Brushes, Shapes, and Media 11. Managing the application lifecycle 12. Working with Web API 13. Working with Native API 14. Finding a job 15. Succeeding as a Mobile App Developer

[Pro ASP.NET Web API](#) - Ali Uurlu 2013-11-26

Pro ASP.NET Web API shows you how to build flexible, extensible web services that run seamlessly on a range of operating systems and devices, from desktops to tablets to smart phones—even the ones we don't know today. ASP.NET Web API is a new framework designed to simplify web service architecture. So if you're tired of interoperability issues between inflexible web services and clients tied to specific platforms

or programming languages, or if you've ever struggled with WCF, this book is for you. To start with, you'll get up to speed on Web API's modern HTTP programming model, REST and your hosting options. You'll then dive into building a real application over a series of three chapters, so you can get an immediate feel for how this technology works in practice. The second half of the book features dedicated chapters on topics like routing, controllers, validation and tracing, and the authors close with discussions on performance, hosting and an all-important look at unit testing to help you prepare your application for the real world. ASP.NET Web API makes HTTP a first-class citizen of .NET. With Pro ASP.NET Web API, you can build HTTP-based web services for your company or business, expose your data to the world across different formats and devices and gain the best possible global reach for your application.

[Learning ASP.NET Core 2.0](#) - Jason De Oliveira 2017-12-14

Learn how web applications can be built efficiently using ASP.NET Core 2.0 and related frameworks About This Book Get to grips with the new features and APIs introduced in ASP.NET Core 2.0 Leverage the MVC framework and Entity Framework Core 2 to build efficient applications Learn to deploy your web applications in new environments such as the cloud and Docker Who This Book Is For This book is for developers who would like to build modern web applications with ASP.NET Core 2.0. No prior knowledge of ASP.NET or .NET Core is required. However, basic programming knowledge is assumed. Additionally, previous Visual Studio experience will be helpful but is not required, since detailed instructions will guide through the samples of the book. This book can also help people, who work in infrastructure engineering and operations, to monitor and diagnose problems during the runtime of ASP.NET Core 2.0 web applications. What You Will Learn Set up your development environment using Visual Studio 2017 and Visual Studio Code Create a fully automated continuous delivery pipeline using Visual Studio Team Services Get to know the basic and advanced concepts of ASP.NET Core 2.0 with detailed examples Build an MVC web application and use Entity Framework Core 2 to access data Add Web APIs to your web applications using RPC, REST, and HATEOAS Authenticate and authorize users with built-in ASP.NET Core 2.0 features Use Azure, Amazon Web Services, and Docker to deploy and monitor your applications In Detail The ability to develop web applications that are highly efficient but also easy to maintain has become imperative to many businesses. ASP.NET Core 2.0 is an open source framework from Microsoft, which makes it easy to build cross-platform web applications that are modern and dynamic. This book will take you through all of the essential concepts in ASP.NET Core 2.0, so you can learn how to build powerful web applications. The book starts with a brief introduction to the ASP.NET Core framework and the improvements made in the latest release, ASP.NET Core 2.0. You will then build, test, and debug your first web application very quickly. Once you understand the basic structure of ASP.NET Core 2.0 web applications, you'll dive deeper into more complex concepts and scenarios. Moving on, we'll explain how to take advantage of widely used frameworks such as Model View Controller and Entity Framework Core 2 and you'll learn how to secure your applications. Finally, we'll show you how to deploy and monitor your applications using Azure, AWS, and Docker. After reading the book, you'll be able to develop efficient and robust web applications in ASP.NET Core 2.0 that have high levels of customer satisfaction and adoption. Style and approach Start an exciting journey to building high performance web applications using ASP.NET Core 2.0 and MVC [ASP.NET Core in Action](#) - Andrew Lock 2021-03-18

ASP.NET Core in Action, Second Edition is a comprehensive guide to creating web applications with ASP.NET Core 5.0. Go from basic HTTP concepts to advanced framework customization. Summary Fully updated to ASP.NET 5.0, ASP.NET Core in Action, Second Edition is a hands-on primer to building cross-platform web applications with your C# and .NET skills. Even if you've never worked with ASP.NET you'll start creating productive cross-platform web apps fast. And don't worry about late-breaking changes to ASP.NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Build full-stack web applications that run anywhere. Developers love ASP.NET Core for its libraries and pre-built components that maximize productivity. Version 5.0 offers new features for server-side apps, as well as background services for cross-platform development. About the book ASP.NET Core in Action, Second Edition is a comprehensive guide to creating web applications with ASP.NET Core 5.0. Go from basic HTTP concepts to advanced framework customization. Illustrations and annotated code make learning visual and easy. Master logins, dependency

injection, security, and more. This updated edition covers the latest features, including Razor Pages and the new hosting paradigm. What's inside Developing apps for Windows and non-Windows servers Configuring applications Building custom components Logging, testing, and security About the reader For intermediate C# developers. About the author Andrew Lock is a Microsoft MVP who has worked with ASP.NET Core since before its first release. Table of Contents PART 1 - GETTING STARTED WITH ASP.NET CORE 1 Getting started with ASP.NET Core 2 Your first application 3 Handling requests with the middleware pipeline 4 Creating a website with Razor Pages 5 Mapping URLs to Razor Pages using routing 6 The binding model: Retrieving and validating user input 7 Rendering HTML using Razor views 8 Building forms with Tag Helpers 9 Creating a Web API for mobile and client applications using MVC PART 2 - BUILDING COMPLETE APPLICATIONS 10 Service configuration with dependency injection 11 Configuring an ASP.NET Core application 12 Saving data with Entity Framework Core 13 The MVC and Razor Pages filter pipeline 14 Authentication: Adding users to your application with Identity 15 Authorization: Securing your application 16 Publishing and deploying your application PART 3 - EXTENDING YOUR APPLICATIONS 17 Monitoring and troubleshooting errors with logging 18 Improving your application's security 19 Building custom components 20 Building custom MVC and Razor Pages components 21 Calling remote APIs with IHttpConnectionFactory 22 Building background tasks and services 23 Testing your application

Azure for .NET Core Developers - Kasam Ahmed Shaikh 2020-04-14

Demystifying working in Azure Ecosystem for .NET Core Developers KEY FEATURES - Discover and put to use the latest features in .NET Core 3.1 and Azure Functions V3 - Learn how to debugging Azure Functions from Production, hosted on Cloud - Understand the working of Application Key Management with Security aspects DESCRIPTION Every developer is striving hard to up-skill oneself from a developer to a Cloud developer and with the growing pace of cloud programming, this up-gradation is not simple. This book will help .NET Core developers to seamlessly cover this said journey. It covers the newly released .Net Core 3.0 / 3.1 features including, Azure Function V3. The book not only focusses on one way of working with Azure Cloud services but also includes another viable way of managing Azure resources with the software application. The book also touches base on some Azure products and services. From exploring the most used Azure services to touching the newest version of offerings, this book is aimed to cover everything from a developer perspective. Code exercise, Code blocks, azure service implementation, application secrets keys management, free super-fast hosting options along with live debugging of code hosted on Cloud, are some of the key take-aways from this book. WHAT WILL YOU LEARN - Develop a .NET core application with Azure App service - Use Azure CosmosDB to manage database services - Explore & work with Microsoft Azure Storage - Able to have the best hosting option for Static Content web application - Work with Azure Functions V3 using Visual Studio 2019 - Implement best Key Management in the app on Azure WHO THIS BOOK IS FOR This book is for aspiring Cloud developers with some experience in Microsoft cloud services. It is also for .NET Core developers who wish to learn and use Azure solutions. TABLE OF CONTENTS 1. Azure Ecosystem 2. My App on Cloud - Microsoft Azure 3. Application Backend - Azure CosmosDB 4. Working with Microsoft Azure Storage 5. Working with Microsoft Azure Storage as Hosting option 6. Securing Application secrets keys with Azure 7. Step towards Serverless approach

ASP.NET Core Application Development - James Chambers 2016-11-29

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through four complete sprints, this book takes you through every step needed to build brand new cross-platform web apps with ASP.NET Core, and make them available on the Internet. You won't just master Microsoft's revolutionary open source ASP.NET Core technology: you'll learn how to integrate the immense power of MVC, Docker, Azure Web Apps, Visual Studio and Visual Studio Code, C#, JavaScript, TypeScript, and Entity Framework. Working through the authors' carefully designed sprints, you'll start with a blank canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before.

ASP.NET Core and Vue.js - Devlin Basilan Duldulao 2021-06-16

A busy .NET developer's step-by-step guide to building fully functional, cloud-ready, and professional web

apps without diving into the theory of frameworks and libraries Key FeaturesDiscover tenants of clean architecture in the latest ASP.NET Core 5 Web APIDevelop Vue.js 3 single-page applications (SPAs) using TypeScript and VuexLearn techniques to secure, test, and deploy your full-stack web apps on AzureBook Description Vue.js 3 is faster and smaller than the previous version, and TypeScript's full support out of the box makes it a more maintainable and easier-to-use version of Vue.js. Then, there's ASP.NET Core 5, which is the fastest .NET web framework today. Together, Vue.js for the frontend and ASP.NET Core 5 for the backend make a powerful combination. This book follows a hands-on approach to implementing practical methodologies for building robust applications using ASP.NET Core 5 and Vue.js 3. The topics here are not deep dive and the book is intended for busy .NET developers who have limited time and want a quick implementation of a clean architecture with popular libraries. You'll start by setting up your web app's backend, guided by clean architecture, command query responsibility segregation (CQRS), mediator pattern, and Entity Framework Core 5. The book then shows you how to build the frontend application using best practices, state management with Vuex, Vuetify UI component libraries, Vuelidate for input validations, lazy loading with Vue Router, and JWT authentication. Later, you'll focus on testing and deployment. All the tutorials in this book support Windows 10, macOS, and Linux users. By the end of this book, you'll be able to build an enterprise full-stack web app, use the most common npm packages for Vue.js and NuGet packages for ASP.NET Core, and deploy Vue.js and ASP.NET Core to Azure App Service using GitHub Actions. What you will learnDiscover CQRS and mediator pattern in the ASP.NET Core 5 Web APIUse Serilog, MediatR, FluentValidation, and Redis in ASP.NETExplore common Vue.js packages such as Vuelidate, Vuetify, and VuexManage complex app states using the Vuex state management libraryWrite integration tests in ASP.NET Core using xUnit and FluentAssertionsDeploy your app to Microsoft Azure using the new GitHub Actions for continuous integration and continuous deployment (CI/CD)Who this book is for This app development book is for .NET developers who want to get started with Vue.js and build full-stack enterprise web applications. Web developers looking to build a proof-of-concept application quickly and pragmatically using their existing knowledge of ASP.NET Core as well as developers who want to write readable and maintainable code using TypeScript and the C# programming language will also find this book useful. The book assumes intermediate-level .NET knowledge along with an understanding of C# programming, JavaScript, and ECMAScript.

Pro ASP.NET Core 3 - Adam Freeman 2020-06-06

Now in its 8th edition, Pro ASP.NET Core has been thoroughly updated for ASP.NET Core 3 and online for ASP.NET Core 5 and .NET 5.0. This comprehensive, full-color guide is the only book you need to learn ASP.NET Core development. Professional developers get ready to produce leaner applications for the ASP.NET Core platform. This edition puts ASP.NET Core 3 into context, and takes a deep dive into the tools and techniques required to build modern, extensible web applications. New features and capabilities such as MVC 3, Razor Pages, Blazor Server, and Blazor WebAssembly are covered, along with demonstrations of how they can be applied in practice. Following the same popular format and style found in previous editions, author Adam Freeman explains how to get the most out of ASP.NET Core 3. Starting with the nuts-and-bolts topics, he teaches readers about middleware components, built-in services, request model binding, and more. Moving along, he introduces increasingly more complex topics and advanced features, including endpoint routing and dependency injection. Written for professionals wanting to incorporate the latest functionality of ASP.NET Core 3 into their projects, this book also serves as a complete reference on ASP.NET Core. Beginners with some background in Microsoft web development will also greatly benefit from the in-depth coverage provided throughout. What You Will Learn: Build a solid foundation and skill set for working with the entire ASP.NET Core platformApply ASP.NET Core 3 and ASP.NET Core 5 features in your developer environment; plentiful reusable templatesSee how to create RESTful web services, web applications, and client-side applicationsLeverage existing knowledge to efficiently get up and running with new programming models Adam Freeman is an experienced IT professional who has held senior positions in a range of companies, most recently serving as chief technology officer and chief operating officer of a global bank. Now retired, he spends his time writing and long-distance running. "The Rolls-Royce of ASP.NET books, (or if you're American, the Cadillac). Very thorough!" Les Jackson, MCSD, DotNet Playbook "The author's instruction is direct, easy to understand and supplemented with clear code

examples... Whether you are a beginner learning ASP.NET Core 3.1 app development, or an experienced professional ready to master advanced concepts, I consider this book a 'must have' for you!" Jeremy Likness, Senior Program Manager, Microsoft "...the best single resource for teaching MVC web apps using ASP.NET. " Charles Carter, MSCS, MSwE, JD, Cloud Application Development Instructor, Microsoft Software and Systems Academy

Hands-On Full-Stack Web Development with ASP.NET Core - Tamir Dresher 2018-10-31

Become a full-stack developer by learning popular Microsoft technologies and platforms such as .NET Core, ASP.NET Core, Entity Framework, and Azure Key Features Bring static typing to web development with features compatible in TypeScript 3 Implement a slim marketplace single page application (SPA) in Angular, React, and Vue Modernize your web apps with Microsoft Azure, Visual Studio, and Git Book Description Today, full-stack development is the name of the game. Developers who can build complete solutions, including both backend and frontend products, are in great demand in the industry, hence being able to do so a desirable skill. However, embarking on the path to becoming a modern full-stack developer can be overwhelmingly difficult, so the key purpose of this book is to simplify and ease the process. This comprehensive guide will take you through the journey of becoming a full-stack developer in the realm of the web and .NET. It begins by implementing data-oriented RESTful APIs, leveraging ASP.NET Core and Entity Framework. Afterward, it describes the web development field, including its history and future horizons. Then, you'll build webbased Single-Page Applications (SPAs) by learning about numerous popular technologies, namely TypeScript, Angular, React, and Vue. After that, you'll learn about additional related concerns involving deployment, hosting, and monitoring by leveraging the cloud; specifically, Azure. By the end of this book, you'll be able to build, deploy, and monitor cloud-based, data-oriented, RESTful APIs, as well as modern web apps, using the most popular frameworks and technologies. What you will learn Build RESTful APIs in C# with ASP.NET Core, web APIs, and Entity Framework See the history and future horizons of the web development field Bring static-typing to web apps using TypeScript Build web applications using Angular, React, and Vue Deploy your application to the cloud Write web applications that scale, can adapt to changes, and are easy to maintain Discover best practices and real-world tips and tricks Secure your backend server with Authentication and Authorization using OAuth 2.0 Who this book is for This book is for developers who are keen on strengthening their skills in the field of cloud-based full-stack web development. You need basic knowledge of web-related pillars, including HTML, CSS, and JavaScript, as well as C# and REST. This book targets novice developers in the realm of Web development and ASP.NET who desire to advance to modern Web and ASP.NET Core development and leverage the Cloud to manage and bring everything together.

Asp.net Core 1.1 Web Api for Beginners - Jonas Fagerberg 2017-08-25

Want to learn how to build ASP.NET Core 1.1 Web APIs? Prerequisites: * C# (Intermediate level; including Generics, Reflection and Object-Oriented Programming (OOP)) Need help? Feel free to contact me at: csharpschoolonline@gmail.com Code: <https://github.com/csharpschool/AspNetCoreWebAPI> Errata: <https://github.com/csharpschool/AspNetCoreVideo/issues> This book is primarily aimed at developers who want to learn how to build ASP.NET Core 1.1 Web APIs; no user interface will be built; instead, you will use a tool called Postman to make requests and to receive responses from the Web API. You should be an intermediate level C# developer with some experience in object-oriented programming (OOP), generics, and reflection. The book presupposes that you have a solid C# foundation since the language won't be explained in any detail. You will learn ASP.NET Core 1.1 Web API by building three services that handle data used in four controllers. An empty template will be used to build the Web API application from the ground up. The goal is to get you familiar with ASP.NET Core 1.1 Web API by adding middleware and services one piece at a time, building a basic application. The first service will use in-memory data stored in collections to make it easier for you to learn Web API basics. The second service will implement the same interface that the in-memory service uses to interact with a SQL Server database using Entity Framework. The third service will be generic, using reflection in one of its methods. Generics will make it possible to reuse the same methods when interacting with all tables in the database instead of creating a set of methods for each table. The content in this book will get you started with Web APIs in a fast, no-fluff way. It's important to mention that this book is practical and tactical, where you will learn as you progress

through the modules and build a real Web API step-by-step. To spare you countless pages of fluff (filler material), only valuable information, pertinent to the task at hand, is discussed. The benefit is a shorter and more condensed book, which will save you time and give you a more enjoyable experience. The goal is to learn ASP.NET Core 1.1 Web API by implementing three different scenarios in a Web API application from scratch using an empty project template. This experience is something you can put in your CV when applying for a job or a consultant position, or when negotiating a higher salary. Technologies, frameworks and languages you will use: * Postman (To send requests and receive responses from the Web API) * Visual Studio 2017 * ASP.NET Core 1.1 MVC/Web API (The framework that you will use) * Services (To provide you own functionality as a reusable service) * Middleware (To provide you own functionality to HTTP Request pipeline) * Entity Framework (To crate and communicate with a database) * LINQ (To query the database) * Dependency Injection (To inject objects into constructors) * NuGet (To install necessary libraries) What you will implement: * A Web API application from an empty template. * Create a "real world" code-first database using Entity Framework Core. * Add and modify entity models to perform CRUD operations against the database. I hope you love the book! Sincerely, Jonas Fagerberg Now click the Buy button and start reading the book.

Mastering Minimal APIs in ASP. NET Core - Andrea Tosato 2022-10-21

Get a practical understanding of how to build lightweight ASP.NET Core applications and write cleaner, testable, and secure APIs with .NET 6 and Minimal APIs Key Features: Explore clear and detailed guidelines to design and develop APIs for ASP.NET Core apps Discover expert tips, tricks, and best practices to build performant APIs Implement proven web API development methodologies using .NET 6 features and tools Book Description: The Minimal APIs feature, introduced in .NET 6, is the answer to code complexity and rising dependencies in creating even the simplest of APIs. Minimal APIs facilitate API development using compact code syntax and help you develop web APIs quickly. This practical guide explores Minimal APIs end-to-end and helps you take advantage of its features and benefits for your ASP.NET Core projects. The chapters in this book will help you speed up your development process by writing less code and maintaining fewer files using Minimal APIs. You'll also learn how to enable Swagger for API documentation along with CORS and handle application errors. The book even promotes ideas to structure your code in a better way using the dependency injection library in .NET. Finally, you'll learn about performance and benchmarking improvements for your apps. By the end of this book, you'll be able to fully leverage new features in .NET 6 for API development and explore how Minimal APIs are an evolution over classical web API development in ASP.NET Core. What You Will Learn: Adopt new features in .NET 6 for building lightweight APIs Understand how to optimize API development with Minimal APIs in .NET 6 Discover best practices for accessing and using data in Minimal APIs Understand how to validate incoming data to an API and return error messages Get familiar with dependency injection and logging for identifying errors Leverage the translation system in Minimal APIs to provide messages and errors in regional languages Who this book is for: If you are an existing .NET developer who wants to develop lightweight APIs quickly without much complexity, this book is for you. If you are a developer who is just getting started with the ASP.NET Core framework, this book will help you learn web API development using the latest .NET features. The book assumes intermediate-level knowledge of C# programming, Visual Studio, and REST API concepts.

Building Web Applications with .NET Core 2.1 and JavaScript - Philip Japikse 2019-12-13

Roll up your sleeves and jump into building web applications using .NET Core 2.1 and the most popular JavaScript frameworks. You will start by building a data access layer using Entity Framework Core, a RESTful service using ASP.NET Core, and then you will build a web application following the MVC pattern, also using ASP.NET Core. The resulting application is an example e-commerce site using the most appropriate capabilities in .NET Core for building a line of business applications. The second half of Building Web Applications with .NET Core 2.1 and JavaScript is dedicated to teaching you how to develop applications on the client with JavaScript, Bootstrap, and related tooling such as TypeScript, WebPack, NPM, and more. Each JavaScript framework will build the same UI as the ASP.NET Core web application from the first half of the book, leveraging the same ASP.NET Core RESTful service and Entity Framework Core data access layer. Building the same UI in the different JavaScript frameworks provides the context

and knowledge to reasonably compare and contrast the tools. What You Will Learn Ramp up quickly on Entity Framework Core and ASP.NET Core Use TypeScript to deliver better JavaScript Manage your JavaScript build process Know how to build UIs with ASP.NET Core MVC, Angular, and React to make better decisions on which technologies to adopt in your projects Conduct an apples-to-apples comparison of ASP.NET Core, Angular, and React Who This Book Is For .NET architects, consultants, and developers who want to modernize their skill set. Some understanding of JavaScript and the Web is useful.

[Programming Entity Framework](#) - Julia Lerman 2011-11-25

Annotation Code first is an additional means of building a model to be used with the Entity Framework and is creating a lot of excitement in the .NET development community. The reader will begin with an overview of what code first is, why it was created, how it fits into the Entity Framework and when to use it over the alternatives.

Building RESTful Web Services with .NET Core - Gaurav Arora 2018-05-31

Building Complete E-commerce/Shopping Cart Application Key Features Follow best practices and explore techniques such as clustering and caching to achieve a reactive, scalable web service Leverage the .NET Framework to quickly implement RESTful endpoints. Learn to implement a client library for a RESTful web service using ASP.NET Core. Book Description REST is an architectural style that tackles the challenges of building scalable web services. In today's connected world, APIs have taken a central role on the web. APIs provide the fabric through which systems interact, and REST has become synonymous with APIs. The depth, breadth, and ease of use of ASP.NET Core makes it a breeze for developers to work with for building robust web APIs. This book takes you through the design of RESTful web services and leverages the ASP.NET Core framework to implement these services. This book begins by introducing you to the basics of the philosophy behind REST. You'll go through the steps of designing and implementing an enterprise-grade RESTful web service. This book takes a practical approach, that you can apply to your own circumstances. This book brings forth the power of the latest .NET Core release, working with MVC. Later, you will learn about the use of the framework to explore approaches to tackle resilience, security, and scalability concerns. You will explore the steps to improve the performance of your applications. You'll also learn techniques to deal with security in web APIs and discover how to implement unit and integration test strategies. By the end of the book, you will have a complete understanding of Building a client for RESTful web services, along with some scaling techniques. What you will learn Add basic authentication to your RESTful API Create a Carts Controller and Orders Controller to manage and process Orders Intercept HTTP requests and responses by building your own middleware Test service calls using Postman and Advanced REST Client Secure your data/application using annotations Who this book is for This book is intended for those who want to learn to build RESTful web services with the latest .NET Core Framework. To make best use of the code samples included in the book, you should have a basic knowledge of C# and .NET Core.

Building Microservices with ASP.NET Core - Kevin Hoffman 2017-08-31

At a time when nearly every vertical, regardless of domain, seems to need software running in the cloud to make money, microservices provide the agility and drastically reduced time to market you require. This hands-on guide shows you how to create, test, compile, and deploy microservices, using the ASP.NET Core free and open-source framework. Along the way, you'll pick up good, practical habits for building powerful and robust services. Building microservices isn't about learning a specific framework or programming language; it's about building applications that thrive in elastically scaling environments that don't have host affinity, and that can start and stop at a moment's notice. This practical book guides you through the process. Learn test-driven and API-first development concepts Communicate with other services by creating and consuming backing services such as databases and queues Build a microservice that depends on an external data source Learn about event sourcing, the event-centric approach to persistence Use ASP.NET Core to build web applications designed to thrive in the cloud Build a service that consumes, or is consumed by, other services Create services and applications that accept external configuration Explore ways to secure ASP.NET Core microservices and applications

ASP.NET Core in 24 Hours, Sams Teach Yourself - Jeffrey T. Fritz 2017-12-06

In just 24 sessions of one hour or less, Sams Teach Yourself ASP.NET Core in 24 Hours, will help you build

professional-quality, cloud-based, web-connected solutions with ASP.NET Core. This book's straightforward, step-by-step approach guides you from the basics to advanced techniques, using practical examples to help you make the most of Microsoft's radically revamped ASP.NET Core framework. ASP.NET Program Manager Jeffrey T. Fritz guides you from jumpstarting development with templates to implementing cutting-edge security and containerization. Every lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success. Step-by-step instructions carefully walk you through the most common ASP.NET Core tasks and techniques Practical, hands-on examples show you how to apply what you learn Notes and Tips point out shortcuts, solutions, and problems to avoid Learn how to... Set up your work environment on Windows or non-Windows operating systems Develop solutions more quickly by starting with project templates Configure ASP.NET Core, services, and applications Access data with Entity Framework Core Build modern architectures, controllers, and views with the new version of MVC Scaffold user interfaces and incorporate reusable UI components Read and write data using web API end-points Manage client-side packages with npm and bower Integrate Angular with ASP.NET Core Authenticate users, and protect your website with ASP.NET Core Authorization Deploy ASP.NET Core solutions into production Work with Docker containers in the ASP.NET Core environment

[Asp.net Core in Action](#) - Andrew Lock 2018-05-30

ASP.NET Core is a re-imagining of the .NET Framework that frees developers from Visual Studio and Windows. ASP.NET Core in Action is for C# developers without any web development experience who want to get started and productive using ASP.NET Core to build web applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

ASP.NET Core Recipes - John Ciliberti 2017-09-12

Quickly find solutions to common web development problems. Content is presented in the popular problem-solution format. Look up the problem that you want to solve. Read the solution. Apply the solution directly in your own code. Problem solved! ASP.NET Core Recipes is a practical guide for developers creating modern web applications, cutting through the complexities of ASP.NET, jQuery, React, and HTML5 to provide straightforward solutions to common web development problems using proven methods based on best practices. The problem-solution approach gets you in, out, and back to work quickly while deepening your understanding of the underlying platform and how to develop with it. Author John Ciliberti guides you through the MVC framework and development tools, presenting typical challenges, along with code solutions and clear, concise explanations, to accelerate application development. Solve problems immediately by pasting in code from the recipes, or put multiple recipe solutions together to overcome challenging development obstacles. What You'll Learn Take advantage of MVC's streamlined syntax Discover how to take full control over HTML Develop a simple API for creating RESTful web services Understand test-driven development Migrate a project from ASP.NET web forms to Core MVC, including recipes for converting DataGrids, Forms, Web Parts, Master Pages, and navigation controls Use Core MVC in combination with popular JavaScript libraries, including jQuery, React, Bootstrap, and more Write unit tests for your MVC controllers, views, custom filters, and HTML helpers Utilize the latest features in Visual Studio 2017 to accelerate your Core MVC projects Identify performance bottlenecks in your MVC application Who This Book Is For Web developers of all skill levels who are looking for a programming reference for ASP.NET Core MVC and would like to gain an understanding of the inner workings of the platform. In addition, parts of this book provide guidance to developers familiar with ASP.NET Web Forms who would like to update their skill set to include Core MVC.

Building Web, Cloud, and Mobile Solutions with F# - Daniel Mohl 2012-11-20

Learn how to build key aspects of web, cloud, and mobile solutions by combining F# with various .NET and open source technologies. With helpful examples, this hands-on book shows you how to tackle concurrency, asynchrony, and other server-side challenges. You'll quickly learn how to be productive with F#, whether you want to integrate the language into your existing web application or use it to create the next Twitter. If you're a mid- to senior-level .NET programmer, you'll discover how this expressive functional-first language helps you write robust, maintainable, and reusable solutions that scale easily and target multiple devices. Use F# with ASP.NET MVC, ASP.NET Web API, WCF, Windows Azure, HTML5, CSS3, jQuery Mobile, and other tools Build next-generation ASP.NET MVC 4 web applications, using F# to do the heavy lifting on the

server Create WCF SOAP and HTTP web services Develop F# web applications and services that run on Windows Azure Build scalable solutions that allow reuse by mobile and web front-ends Use F# with the WebSharper and Pit frameworks to build end-to-end web stacks

Building Single Page App Using ASP.NET Core and Angular - RAHUL SAHAI 2018-03-25

Building Single Page App using ASP.NET Core and Angular is not at all meant for freshers or for those who just started programming. This Book covers tons of client-server side technologies. For example it uses ASP.NET Core, Entity Framework Core, WebAPI, Repository Pattern, Unit of Work Pattern, Angular, Responsive design principles, HTML 5, Solid Principles, Design Patterns, etc. to name a few. Now to illustrate each and every concept right from the scratch is fairly impossible as it kills the purpose of writing this book. This book is for my readers who regularly ask me to write something combining all these principles. There are tons of developers and professionals around the world who know these concepts in bits and pieces but don't know how to connect the dots to build as an application. This book is entirely written around industry & coding standard, design principles. Hence, if you are fresher or just started your job, I would recommend to understand basics first and then refer this book. Otherwise, this will appear overwhelming at the beginning. From the second chapter, you will find questions section at the end of every chapter. If you are following this book precisely, you should be able to answer these questions on your own. These are project specific questions which are generally asked in any technical interviews.

CONTENTS Chapter 1: Getting Started Chapter 2: Creating Solution From The Blank Slate Chapter 3: Creating Data Context Chapter 4: Implementing Web API Chapter 5: Getting Started with Angular Chapter 6: Deeper into Angular Chapter 7: Adding More Features Using Angular Chapter 8: Adding More Features to the App Chapter 9: Authentication & Authorisation Chapter 10: Introduction to Azure and CosmosDb
ASP.NET Core Razor Pages in Action - Mike Brind 2022-12-27

Razor Pages lets you build, configure, and deploy amazing dynamic ASP.NET websites with ease. In ASP.NET Core Razor Pages in Action you will learn: Building, configuring, and publishing a data-driven website Creating a complete web application step-by-step Forms for collecting and processing user data Connecting to databases from a Razor Page Protecting areas of a Razor Page from unauthorized access

with ASP.NET Identity Using Object Relational Mapping tools to work with data in Razor Pages applications Generating CRUD pages using scaffolding gestures Generating and sending email from your web application ASP.NET Core Razor Pages in Action teaches you to develop dynamic websites using the powerful Razor Pages framework, .NET 6, and ASP.NET. Razor Pages generates HTML on the server, and is the perfect choice for eCommerce sites, intranet services, content management systems, and other apps that require reliability. In this book, you'll use Razor Pages to build a complete application for booking city breaks, learning to iterate amazing new features chapter-by-chapter. You'll even learn how to enhance your web applications with the huge ecosystem of C# libraries, and how to locate the perfect tool for your task using centralized repositories. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Simplify ASP.NET web development with Razor Pages! Razor Pages provides a cohesive page-based organization layer for application components like routes and actions. It's page-centric approach means you spend less dev time switching between the controller, model, and view files, as compared to a traditional MVC approach. About the book ASP.NET Core Razor Pages in Action teaches you how to use Razor Pages to code and scale dynamic ASP.NET Core websites. You'll learn a new feature in every chapter as you build an interesting vacation-booking application. As your app grows, you'll be amazed how Razor Pages accelerates essential tasks like form creation, data processing, testing, and deployment. What's inside Securing your applications from unauthorized access Using object-relational mapping tools to work with data Generating and sending email from a web application Enhance your web apps with C# libraries About the reader For web developers familiar with C# programming. About the author Mike Brind is an 11-time recipient of the Microsoft Most Valuable Professional (MVP) award for ASP.NET. Table of Contents 1 Getting started with Razor Pages 2 Building your first application 3 Working with Razor Pages 4 Matching URLs to Razor Pages with routing 5 Working with forms: Model binding 6 Working with forms: Tag helpers 7 Using dependency injection to manage services 8 Working with data 9 Managing users with authentication 10 Controlling access with authorization 11 Client-side technologies and AJAX 12 Troubleshooting your application 13 Protecting your application against external attacks 14 Configuring and publishing your application