

Building Your First ASP.NET Core Web API

Building Web APIs with ASP.NET Core Valerio Sanctis 2023-05-23 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. Building Web APIs with ASP.NET Core 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.

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

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

ASP.NET Core for Jobseekers Kemal Birer 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

Building Modern SaaS Applications with C# and .NET Andy Watt 2023-06-23 Embark on a tech-tastic adventure and build Software as a Service (SaaS) applications using the Microsoft tech stack Purchase of the print or Kindle book includes a free PDF eBook Key Features Understand the core concepts of Software as a Service and their importance in building modern applications Build a wide array of key elements for SaaS applications using practical examples Learn to test, deploy, upgrade, and maintain a SaaS application Book Description There are several concepts that must be mastered to deliver functional and efficient SaaS applications. This book is perfect for developers and teams with experience in traditional application development looking to switch to SaaS and deliver slick and modern applications. You'll start with a general overview of SaaS as a concept and learn with the help of an example throughout the book to bring life to the technical descriptions. You'll use the Microsoft .NET tech stack for development and C# as the programming language to develop your desired SaaS application. Delivering SaaS requires a deep understanding of all layers in the application stack. As you progress, you'll learn how to approach the database layer, the API, and the UI to confidently approach application development using the SaaS model. Additionally, you'll explore how to test, deploy, maintain, and upgrade each component of the application. By the end of this book, you will be well equipped to approach all aspects of delivering software using the SaaS paradigm. What you will learn Explore SaaS and understand its importance in modern application development Discover multi-tenancy and its impact on design decisions for SaaS Build, test, and deploy a database, API, and UI for a SaaS application Approach authentication and authorization like a pro Scale a SaaS

application Employ C# and .NET to build SaaS applications Who this book is for If you are a software developer with an interest in developing apps using the 'SaaS' paradigm, or a tech lead, scrum master, or a director and founder - this book will help you understand how to build a SaaS application. If you are a Java developer looking to start fresh with distributed systems, this book is for you. A basic understanding of Java, Spring/Spring Boot, and Web services will help you get the most out of this book.

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 Blazor Book 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 learn Explore the new features and APIs introduced in ASP.NET Core 5 and Blazor Put basic ASP.NET Core 5 concepts into practice with the help of clear and simple samples Work with Entity Framework Core and its different workflows to implement your application's data access Discover the different web frameworks that ASP.NET Core 5 offers for building web apps Get to grips with the basics of building RESTful web APIs to work with real data Deploy your web apps in AWS, Azure, and Docker containers Work with SignalR to add real-time notifications to your app Who 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 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 MVC 4 and the Web API Jamie Kurtz 2013-03-12 This one hundred page book focuses exclusively on how you can best use the ASP.NET MVC 4 Framework to build world-class REST services using the Web API. It sets aside much of what the ASP.NET MVC Framework can do, and focuses exclusively on how the Web API can help you build web services. You will not find any help on CSS, HTML, JavaScript, or jQuery. Nor will you find any help on the Razor view engine, HTML Helpers, or model binding. If you need this information then Pro ASP.NET MVC 4 is your perfect book. ASP.NET MVC 4 and the Web API: Building a REST Service from Start to Finish helps you build cutting-edge REST services using ASP.NET MVC 4 and the Web API in more depth and detail than any other resource. ASP.NET MVC has always been a good platform on which to implement REST, but with the advent of the Web API it has now become even better. This book will show you why it's great and how to get the most from it. Author Jamie Kurtz will take you from zero to full-blown REST service hero in no time at all. And you'll even learn how to incorporate some popular open source tools along the way: little or no experience with ASP.NET or the MVC Framework is required.

A Developer's Guide to .NET in Azure Anuraj Parameswaran 2023-10-20 Develop cloud-native applications using serverless technologies, Azure services, and .NET with the help of this reference guide Key Features Create cloud-native .NET applications using cutting-edge technologies Design, develop, and deploy scalable, manageable, and resilient apps with various Azure services Explore serverless architecture and optimize application scalability through efficient design Purchase of the print or Kindle book includes a free PDF eBook Book Description A Developer's Guide to .NET in Azure helps you embark on a transformative journey through Microsoft Azure that is tailored to .NET developers. This book is a curated compendium that'll enable you to master the creation of resilient, scalable, and highly available applications. The book is divided into four parts, with Part 1 demystifying Azure for you and emphasizing the portal's utility and seamless integration. The chapters in this section help you configure your workspace for optimal Azure synergy. You'll then move on to Part 2, where you'll explore serverless computing, microservices, containerization, Dapr, and Azure Kubernetes Service for scalability, and build pragmatic, cost-effective applications using Azure Functions and Container apps. Part 3 delves into data and storage, showing you how to utilize Azure Blob Storage for unstructured data, Azure SQL Database for structured data, and Azure Cosmos DB for document-oriented data. The final part teaches you about messaging and security, utilizing Azure App Configuration, Event Hubs, Service Bus, Key Vault, and Azure AD B2C for robust, secure applications. By the end of this book, you'll have mastered Azure's responsive infrastructure for exceptional applications. What you will learn Discover how to create serverless apps and services Design microservices with Azure Kubernetes service Get to grips with different Azure databases and storage services Find out how to use secret and configuration management Familiarize yourself with event-driven architecture Understand how to leverage Azure Service Bus and Azure Event Hubs Find out how to protect APIs and apps using Azure B2C Who this book is for This book is for .NET developers and architects who are eager to master the art of creating and deploying robust applications using .NET and Azure. A foundational understanding of .NET and Azure will enable you to enhance your skills with this resourceful guide. Developers aspiring to explore the realms of microservices and serverless applications within the .NET and Azure landscapes will find this book invaluable.

Building Web APIs with ASP.NET Core Chris Woodruff 2018

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.

Programming ASP.NET Core Dino Esposito 2018-05-10 The complete, pragmatic guide to building high-value solutions with ASP.NET Core Programming ASP.NET Core is the definitive guide to practical web-based application development with Microsoft's new ASP.NET Core framework. Microsoft MVP Dino Esposito introduces proven techniques and well-crafted example code for solving real problems with ASP.NET Core. Step by step, he guides you through using all key ASP.NET Core technologies, including MVC for HTML generation, .NET Core, EF Core, ASP.NET Identity, dependency injection, and much more. Esposito thoroughly covers ASP.NET Core's cross-platform capabilities and what's changed from older ASP.NET versions, but he doesn't stop there: he offers a complete learning path for every developer who wants to build production solutions, including mobile-specific solutions. Microsoft MVP Dino Esposito shows how to:

- Create new projects and understand their structure
- Set up and use the familiar MVC application model in ASP.NET Core
- Write controller class code to govern all stages of request processing
- Serve HTML from controllers, or directly via Razor Pages
- Master the Razor language for quickly defining the layout of HTML views
- Manage cross-cutting concerns such as global configuration data, error and exception handling, controller class design, and dependency injection
- Secure applications with user authentication and ASP.NET Core's policy-based user authorization API
- Design for efficient data access, and choose the right option for reading and writing data
- Build ASP.NET Core Web APIs that return JSON, XML, or other data
- Use data binding to programmatically update visual

components with fresh information • Build device-friendly web views for iOS and Android • Explore the radically new ASP.NET Core runtime environment and Dependency Injection (DI) infrastructure

ASP.NET Core: Cloud-ready, Enterprise Web Application Development Mugilan T. S. Ragupathi 2017-06-09 Create fast, scalable, and high-performance applications with C# and ASP.NET Core About This Book Get first-principle coverage of the latest ASP.NET Core MVC Find out how to bring together the capabilities and features of both Angular 2 and ASP.NET Core Discover common areas you might encounter performance problems with and areas you don't need to worry about Who This Book Is For This book is for developers who want to learn to build web applications using ASP.NET Core, those who want to make a career building web applications using Microsoft technology, and those who are working on other web frameworks and want to learn ASP.NET Core. What You Will Learn Get to know the concepts of ASP.NET MVC Create a Controller with action methods Build a view using several features of the Razor View engine Construct a Model for ASP.NET Core MVC application Find out how the features of ASP.NET Core and Angular 2 perfectly complement each other Handle requests and actions using server-side and client-side Routing Create a Data Model using Entity Framework Core Learn how to use Angular 2 components and master directives Improve performance at the network level and I/O level, and how to optimize the application as a whole Monitor performance as part of Continuous Integration and regression testing In Detail ASP.NET Core is the new, open source, and cross-platform, web-application framework from Microsoft. ASP.NET Core MVC helps you build robust web applications using the Model-View-Controller design. This guide will help you in building applications that can be deployed on non-Windows platforms such as Linux. Starting with an overview of the MVC pattern, you will quickly dive into the aspects that you need to know to get started with ASP.NET. You will learn about the core architecture of model, view, and control. Integrating your application with Bootstrap, validating user input, interacting with databases, and deploying your application are some of the things that you will learn to execute with this fast-paced guide. You will test your knowledge as you build a fully working sample application using the skills you've learned throughout the book. Moving forward, this guide will teach you to combine the impressive capabilities of ASP.NET Core and Angular 2. Not only will you learn how Angular 2 can complement your .NET skills and toolkit, you'll also learn everything you need to build a complete, dynamic single-page application. Find out how to get your data model in place and manage an API, before styling and designing your frontend for an exceptional user experience. You will find out how to optimize your application for SEO, identify and secure vulnerabilities, and how to successfully deploy and maintain your application. From here, you will delve into the latest frameworks and software design patterns to improve your application performance. The course offers premium, highly practical content on the recently released ASP.NET Core, and includes material from the following Packt books: Learning ASP.NET Core MVC Programming, ASP.NET Core and Angular 2, and ASP.NET Core 1.0 High Performance. Style and approach This learning path takes a first-principles approach to help you understand and implement ASP.NET MVC solutions.

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

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.

Building Web APIs with ASP.NET Core Valerio De Sanctis 2023-07-11 Build fully-featured APIs with ASP.NET Core! This all-practical guide is written like a real development project, taking you hands-on with modern APIs utilizing REST and GraphQL standards. In Building Web APIs with ASP.NET Core you will learn how to: Set up your environment with VS 2022, Node, Git, and more Create a ASP.NET Core project from scratch Integrate with SQL Server Use Entity Framework Core to set up a data model Create back-end controllers Design an API to serve data Write API documentation using Swagger and Swashbuckle Consume an API using typical web client-side frameworks Handle requests and routes using controllers and Minimal API Release and deploy your Web API in production on cloud-based hosting services such as MS Azure Building Web APIs with ASP.NET Core 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. The book is cleverly structured to mirror a real-world development project, with each chapter introducing 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. About the Technology Web APIs are the front door to an application, providing controlled access to its data and features. ASP.NET Core, Microsoft's web framework, simplifies and accelerates API creation with powerful, developer-friendly features, including an innovative "no compile" coding experience. It is reliable, fast, free, open-source, and backed by Microsoft's legendary support. About the Book Building Web APIs with ASP.NET Core teaches you how to write safe, maintainable, and performant REST APIs. It's full of best practices for modern and classic API styles, including REST and GraphQL. You'll love the groundbreaking Minimal API model that helps you build pro-quality APIs with just a few lines of code. Each chapter contains realistic user stories, backlog items, and development tasks. What's Inside Create an ASP.NET Core project from scratch Set up a data model with Entity Framework Core Create backend controllers Design an API to serve data About the Reader For developers with some experience using the .NET Framework. About the Author Valerio De Sanctis has more than 20 years of experience in web development and project management using ASP.NET, PHP, and Java. Table of Contents PART 1 - GETTING STARTED 1 Web APIs at a glance 2 Our first web API project 3 RESTful principles and guidelines PART 2 - BASIC CONCEPTS 4 Working with data 5 CRUD operations 6 Data validation and error handling PART 3 - ADVANCED CONCEPTS 7 Application logging 8 Caching techniques 9 Authentication and authorization 10 Beyond REST PART 4 - TOWARD PRODUCTION 11 API documentation 12 Release and deployment 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.

ASP.NET Core in Action, Second Edition 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

The Complete ASP.NET Core 3 API Tutorial Les Jackson 2020-11-02 Use this ASP.NET Core API tutorial and straightforward step-by-step guide to build, test, and deploy an ASP.NET Core API to Azure. It will help you code confidently and efficiently, and provides just what you need for context. The book starts with detailing how to set up your development environment, and then introduces a variety of tools and technologies to build, test, and deploy your API. It covers tools such as .NET Core SDK, (Version 3.1), Visual Studio Code, Git, xUnit, Docker, PostgreSQL, Postman, Azure DevOps, Azure, AutoMapper, and many more. Practical guidance is provided so you can achieve a tangible and valuable outcome, and you also are given a dose of theory on REST (Representational State Transfer), JSON, (JavaScript Object Notation), DTOs (Data Transfer Objects), and the MVC (Model View Controller) architectural pattern. What You Will Learn Build an ASP.NET Core API using C#, test it, and deploy it to Azure Understand concepts on Entity Framework Core Gain hard-earned secrets, shortcuts, and gotchas throughout the "build along" Get comfortable with ASP NET Core Environments Be introduced to unit testing, CI/CD pipelines, bearer authentication, and JSON Web Tokens (JWT) Who This Book Is For Developers using the Microsoft stack. Some basic understanding of .NET Core is assumed.

ASP.NET Core Razor Pages in Action Mike Brind 2023-01-24 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. 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

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 pre-requisites 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

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.

Pro ASP.NET Web API Security Badrinarayanan Lakshmiraghavan 2013-05-13 ASP.NET Web API is a key part of ASP.NET MVC 4 and the platform of choice for building RESTful services that can be accessed by a wide range of devices. Everything from JavaScript libraries to RIA plugins, RFID readers to smart phones can consume your services using platform-agnostic HTTP. With such wide accessibility, securing your code effectively needs to be a top priority. You will quickly find that the WCF security protocols you're familiar with from .NET are less suitable than they once were in this new environment, proving themselves cumbersome and limited in terms of the standards they can work with. Fortunately, ASP.NET Web API provides a simple, robust security solution of its own that fits neatly within the ASP.NET MVC programming model and secures your code without the need for SOAP, meaning that there is no limit to the range of devices that it can work with - if it can understand HTTP, then it can be secured by Web API. These SOAP-less security techniques are the focus of this book.

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

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.

ASP.NET Web API 2: Building a REST Service from Start to Finish Jamie Kurtz 2014-08-07 The ASP.NET MVC Framework has always been a good platform on which to implement REST-based services, but the introduction of the ASP.NET Web API Framework raised the bar to a whole new level. Now in release version 2.1, the Web API Framework has evolved into a powerful and refreshingly usable platform. This concise book provides technical background and guidance that will enable you to best use the ASP.NET Web API 2 Framework to build world-class REST services. New content in this edition includes: New capabilities in Web API 2 (currently version 2.1). Support for partial updates, or PATCH. API versioning. Support for legacy SOAP-based operations. How to handle non-resource APIs using REST How to best expose relationships between resources JSON Web Tokens, CORS, CSRF Get ready for authors Jamie Kurtz and Brian Wortman to take you from zero to REST service hero in no time at all. No prior experience with ASP.NET Web API is required; all Web API-related concepts are introduced from basic principles and developed to the point where you can use them in a production system. A good working knowledge of C# and the .NET Framework are the only prerequisites to best benefit

from 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.

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 3. Microsoft Azure 4. Application Backend - Azure CosmosDB 5. Working with Microsoft Azure Storage 6. Working with Microsoft Azure Storage as Hosting option 7. Securing Application secrets keys with Azure 8. Step towards Serverless approach

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 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 Features Discover tenants of clean architecture in the latest ASP.NET Core 5 Web API Develop Vue.js 3 single-page applications (SPAs) using TypeScript and Vuex Learn techniques to secure, test, and deploy your full-stack web apps on Azure Book 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 learn Discover CQRS and mediator pattern in the ASP.NET Core 5 Web API Use Serilog, MediatR, FluentValidation, and Redis in ASP.NET Explore common Vue.js packages such as Vuelidate, Vuetify, and Vuex Manage complex app states using the Vuex state management library Write integration tests in ASP.NET Core using xUnit and FluentAssertions Deploy 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.

ASP.NET Core 2.2 MVC, Razor Pages, API, JSON Web Tokens & HttpClient Jonas Fagerberg 2019-05-19 Want to learn ASP.NET Core 2.2 MVC, Razor Pages, API, JSON Web Tokens (JWT) and HttpClient? Prerequisites: C# (Intermediate level; including Generics, Reflection, async/await and Object-Oriented Programming (OOP)) MVC/HTML5/CSS3 (Basic knowledge) I want to welcome you to ASP.NET Core 2.2 MVC, Razor Pages, API, JSON Web

Tokens & HttpClient. This book will guide you through creating a video course membership site secured with JSON Web Tokens. This book's target audience is developers who want to learn how to build ASP.NET Core 2.2 MVC, Razor Page, and API applications. The API has JSON Web Token (JWT) authentication and authorization, and the Razor Pages calls the API with HttpClient. You should be an intermediate level C# developer with some experience in MVC, Entity Framework, HTML5, and CSS3. The book presupposes that you have a solid C# foundation with good knowledge in OOP, Linq/Lambda, generics, and asynchronous calls; this is not a book about the C# language. You will learn ASP.NET Core 2.2 by building three applications in five projects. The first application is a UI for users registered with the membership site built with the MVC template; the second is an administration UI built with Razor Pages; the third is an API secured with JSON Web Token authentication and authorization that the administration application calls with HttpClient. All three applications use several services with differing purposes. Apart from the three application projects, a project for shared resources is created as well as a database project with the sole purpose of handling the shared Entity Framework Core 2.2 database. When finished, you will have created a fully functioning video course website, where users can register to get access to video content, and administrators can add and modify course content and users. You should already be familiar with MVC 5 or ASP.NET Core to get the most from this book; it delivers the content in a fast, no-fluff way. The 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 2.2 by building web projects: an experience that you can put in your CV when applying for a job or a consultant position, or when negotiating a higher salary. By the end of this book, you will be able to create ASP.NET Core 2.2 applications on your own, which can create, edit, delete, and view data in a database. Technologies, frameworks and languages you will use: Visual Studio 2019 ASP.NET Core 2.2 MVC, Razor Pages and API Services (To provide your own functionality as a reusable service) Middleware (To provide you own functionality to the HTTP Request pipeline) Entity Framework (To create and communicate with a database) Dependency Injection (To inject objects into constructors) Bootstrap (To style and create a responsive design) LINQ (To query the database) Tag Helper (to clean up the HTML and enable reuse) HTML Helper methods (to clean up your HTML and enable reuse) Partial views (to clean up your views and enable re-use) What you will implement: A Razor Page web application A MVC web application A API web application A data-layer project referenced from the other web applications I hope you love the book! Sincerely, Jonas Fagerberg Now click the Buy button and start learning.

[A Developer's Guide to Building Resilient Cloud Applications with Azure](#) Hamida Rebai Trabelsi 2023-02-24 Successfully modernize your apps on Azure using APIs, event-driven systems, functions, and Service Fabric and connect them to different relational and non-relational databases Purchase of the print or Kindle book includes a free PDF eBook Key Features Understand Function-as-a-Service and Azure Service Fabric for distributed applications Develop event-based and message-based solutions using Event Grid and Azure Event Hubs Explore continuous deployment for Docker with Azure DevOps and integrate Docker Hub with CI/CD pipelines Book Description To deliver software at a faster rate and reduced costs, companies with stable legacy systems and growing data volumes are trying to modernize their applications and accelerate innovation, but this is no easy matter. A Developer's Guide to Building Resilient Cloud Applications with Azure helps you overcome these application modernization challenges to build secure and reliable cloud-based applications on Azure and connect them to databases with the help of easy-to-follow examples. The book begins with a basic definition of serverless and event-driven architecture and Database-as-a-Service, before moving on to an exploration of the different services in Azure, namely Azure API Management using the gateway pattern, event-driven architecture, Event Grid, Azure Event Hubs, Azure message queues, FaaS using Azure Functions, and the database-oriented cloud. Throughout the chapters, you'll learn about creating, importing, and managing APIs and Service Fabric in Azure, and discover how to ensure continuous integration and deployment in Azure to fully automate the software delivery process, that is, the build and release process. By the end of this book, you'll be able to build and deploy cloud-oriented applications using APIs, serverless, Service Fabric, Azure Functions, and Event Grid technologies. What you will learn Understand the architecture of Azure Functions and Azure Service Fabric Explore Platform-as-a-Service options for deploying SQL Server in Azure Create and manage Azure Storage and Azure Cosmos DB resources Leverage big data storage in Azure services Select Azure services to deploy according to a specific scenario Set up CI/CD pipelines to deploy container applications on Azure DevOps Get to grips with API gateway patterns and Azure API Management Who this book is for This book is for cloud developers, software architects, system administrators, database administrators, data engineers, developers, and computer science students who want to understand the role of the software architect or developer in the cloud world. Professionals looking to enhance their cloud and cloud-native programming concepts on Azure will also find this book useful. A solid background in C#, ASP.NET Core, and any recent version of Visual Studio and basic knowledge of cloud computing, Microsoft Azure, and databases will be helpful when using this book.

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

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

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.

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