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ASP.NET Core and Vue.js Mar 25 2022 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 High Performance Apr 01 2020 Learn how to develop web applications that deploy cross-platform and are optimized for high performance using ASP.NET Core 2 About This Book Master high-level web app performance improvement techniques using ASP.NET Core 2.0 Find the right balance between premature optimization and inefficient code Design workflows that run asynchronously and are resilient to transient performance issues Who This Book Is For This book is aimed for readers who can build a web application and have some experience with ASP.NET or some other web application framework (such as Ruby on Rails or Django). They can be people who are happy learning details independently but who struggle to discover the topics that they should be researching. The reader should be interested in improving the performance of their web app and in learning about ASP.NET

Core and modern C#. What You Will Learn Understand ASP.NET Core 2 and how it differs from its predecessor Address performance issues at the early stages of development Set up development environments on Windows, Mac, and Linux Measure, profile and find the most significant problems Identify the differences between development workstations and production infrastructures, and how these can exacerbate problems Boost the performance of your application but with an eye to how it affects complexity and maintenance Explore a few cutting-edge techniques such as advanced hashing and custom transports In Detail The ASP.NET Core 2 framework is used to develop high-performance and cross-platform web applications. It is built on .NET Core 2 and includes significantly more framework APIs than version 1. This book addresses high-level performance improvement techniques. It starts by showing you how to locate and measure problems and then shows you how to solve some of the most common ones. Next, it shows you how to get started with ASP.NET Core 2 on Windows, Mac, Linux, and with Docker containers. The book illustrates what problems can occur as latency increases when deploying to a cloud infrastructure. It also shows you how to optimize C# code and choose the best data structures for the job. It covers new features in C# 6 and 7, along with parallel programming and distributed architectures. By the end of this book, you will be fixing latency issues and optimizing performance problems, but you will also know how this affects the complexity and maintenance of your application. Finally, we will explore a few highly advanced techniques for further optimization. Style and approach A step-by-step practical guide filled with real-world use cases and examples

.NET Core 2.0 By Example Aug 30 2022 Build cross-platform solutions with .NET Core 2.0 through real-life scenarios Key Features Bridges the gap between learning and doing and improves your software development skills Covers the best practices of .NET development to improve your productivity Example-based approach to get you started quickly with software programming Book Description With the rise in the number of tools and technologies available today, developers and architects are always exploring ways to create better and smarter solutions. Before, the differences between target platforms was a major roadblock, but that's not the case now. *.NET Core 2.0 By Example* will take you on an exciting journey to building better software. This book provides fresh and relevant content to .NET Core 2.0 in a succinct format that's enjoyable to read. It also delivers concepts, along with the implications, design decisions, and potential pitfalls you might face when targeting Linux and Windows systems, in a logical and simple way. With the .NET framework at its center, the book comprises of five varied projects: a multiplayer Tic-tac-toe game; a real-time chat application, Let'sChat; a chatbot; a microservice-based buying-selling application; and a movie booking application. You will start each chapter with a high-level overview of the content, followed by the above example applications described in detail. By the end of each chapter, you will not only be proficient with the concepts, but you'll also have created a tangible component in the application. By the end of the book, you will have built five solid projects using all the tools and support provided by the .NET Core 2.0 framework. What you will learn Build cross-platform applications with ASP.NET Core 2.0 and its tools Integrate, host, and deploy web apps with the cloud (Microsoft Azure) Leverage the ncurses native library to extend console capabilities in .NET Core on Linux

and interop with native code .NET Core on Linux and learn how to interop with existing native code Reuse existing .NET Framework and Mono assemblies from .NET Core 2.0 applications Develop real-time web applications using ASP.NET Core Learn the differences between SOA and microservices and get started with microservice development using ASP.NET Core 2.0 Walk through functional programming with F# and .NET Core from scratch Who this book is for If you are a developer or architect and want to learn how to build cross-platform solutions using Microsoft .NET Core, this book is for you. It is assumed that you have some knowledge of the .NET Framework, OOP, and C# (or a similar programming language).

Developing Cloud Native Applications in Azure using .NET Core Nov 01 2022 Guide to designing and developing cloud native applications in Azure DESCRIPTION The mainstreaming of Cloud Native Architecture as an enterprise discipline is well underway. According to the Forbes report in January 2018, 83% of the enterprise workloads will be in the cloud by 2020 and 41% of the enterprise workloads will run on public cloud platforms, while another 22% will be running on hybrid cloud platforms. Customers are embarking on the enterprise digital transformation journeys. Adopting cloud and cloud native architectures and microservices is an important aspect of the journey. This book starts with a brief introduction on the basics of cloud native applications, cloud native application patterns. Then it covers the cloud native options available in Azure. The objective of the book is to provide practical guidelines to an architect/designer/consultant/developer, who is a part of the Cloud application definition Team. The book articulates a methodology that the implementation team needs to follow in a step-by-step manner and adopt them to fulfil the requirements for enablement of the Cloud Native application. It emphasizes on the interpersonal skills and techniques for organizing and directing the Cloud Native definition, leadership buy-in, leading the transition from planning to implementation. It also highlights the steps to be followed for performing the cloud native applications, cloud native patterns in the development of Cloud native applications, Cloud native options available in Azure, Developing BOT, Microservices based on Azure. It also covers how to develop simple IoT applications, Machine learning based applications, server less architecture, using Azure with a practical and pragmatic approach. This book embraces a structured approach organized around the following key themes, which represent the typical phases that an enterprise traverses during its Cloud Native application journey: ? Basics of Cloud Native Applications: It covers basics of cloud native applications using .NET core. ? Cloud Native Application Patterns: The reader will understand the patterns for developing Cloud Native Applications. ? Cloud Native Options available in Azure: The reader will understand the different options available in Azure. ? Developing a Simple BOT using .NET Core: The reader will understand the Azure BOT framework basics and will learn how to develop a simple BOT. ? Developing cloud native applications leveraging Microservices: The reader will understand the concepts of developing micro services using the Azure API Gateway Manager. ? Developing Integration capabilities using serverless architecture: The reader will understand the integration capabilities and various options available in Azure ? Developing a simple IoT application: The reader will understand the basics of developing IoT applications. ? Developing a simple ML based application: The reader will

understand Machine Learning basics and how to develop a simple ML application ? Different enterprise use cases, which enable digital transformation using the Cloud Native Applications: The reader will learn about different use cases that can be built using cloud native applications KEY FEATURES (Add 5-7 key features only) ? Basics of Cloud Native Applications ? Designing Microservices ? Different cloud native options for developing Cloud Native Applications in Azure ? BOTs, Web Apps, Mobile Apps, Logic Apps, Service Bus, Azure Functions ? Azure IOT Applications ? Azure Machine Learning Basics ? Enterprise Digital Journeys WHAT WILL YOU LEARN This book aims to: ? Demonstrate the importance of a Cloud Native application in elevating the effectiveness of organizational transformation programs and digital enterprise journeys, using MS Azure ? Disseminate current advancements and thought leadership in the area of Cloud Native architecture, in the context of digital enterprises ? Provide initiatives with evidence-based, credible, field tested and practical guidance in crafting their respective architectures; and ? Showcase examples and experiences of the innovative use of Cloud Native Applications in enhancing transformation initiatives. WHO THIS BOOK IS FOR The book is intended for anyone looking for a career in Cloud technology, all aspiring Cloud Architects who want to learn Cloud Native Architectures, Microservices, IoT, BoT and Microsoft Azure platform and working professionals who want to switch their career in Cloud Technology. While no prior knowledge of Azure or related technologies is assumed, it will be helpful to have some .Net programming experience. In addition, the target audience of this book are, ? Business Leaders, Chief Architects, Analysts and Designers seeking better, quicker and easier approaches to respond to needs of their internal and external customers; ? CIOs/CTOs of business software companies interested in incorporating Cloud Native architecture to differentiate their products and services offerings and increasing the value proposition to their customers; ? Consultants and practitioners desirous of new solutions and technologies to improve productivity of their clients; ? Academic and consulting researchers looking to uncover and characterize new research problems and programmes ? Practitioners and professionals involved with organizational technology strategic planning, technology procurement, management of technology projects, consulting and advising on technology issues and management of total cost of ownership. Table of Contents 1. Basics of Cloud Native Applications 2. Cloud Native Application Patterns 3. Cloud Native Options available in Azure – BOTs, Logic Apps, Service Bus, Azure Microservices, ML services 4. Developing a Simple BOT using .NET Core 5. Developing Cloud Native applications leveraging Microservices and Azure API Gateway 6. Developing Integration capabilities using serverless architecture 7. Developing a simple IoT application 8. Developing a simple ML based application 9. Different enterprise use cases which enable digital transformation using Cloud Native Applications

ASP.NET Core for Jobseekers Jul 29 2022 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

C# 8.0 and .NET Core 3.0 – Modern Cross-Platform Development Apr 25 2022 Publisher's Note: Microsoft ceased support for .NET Core 3.0 in March 2020. A new edition of this book is available that uses .NET 6 (an LTS release with support up until November 2024), C# 10, and Visual Studio 2022, as well as Visual Studio Code. **Key Features** Build modern, cross-platform applications with .NET Core 3.0 Get up to speed with C#, and up to date with all the latest features of C# 8.0 Start creating professional web applications with ASP.NET Core 3.0 **Book Description** In C# 8.0 and .NET Core 3.0 – Modern Cross-Platform Development, Fourth Edition, expert teacher Mark J. Price gives you everything you need to start programming C# applications. This latest edition uses the popular Visual Studio Code editor to work across all major operating systems. It is fully updated and expanded with new chapters on Content Management Systems (CMS) and machine learning with ML.NET. The book covers all the topics you need. Part 1 teaches the

fundamentals of C#, including object-oriented programming, and new C# 8.0 features such as nullable reference types, simplified switch pattern matching, and default interface methods. Part 2 covers the .NET Standard APIs, such as managing and querying data, monitoring and improving performance, working with the filesystem, async streams, serialization, and encryption. Part 3 provides examples of cross-platform applications you can build and deploy, such as web apps using ASP.NET Core or mobile apps using Xamarin.Forms. The book introduces three technologies for building Windows desktop applications including Windows Forms, Windows Presentation Foundation (WPF), and Universal Windows Platform (UWP) apps, as well as web applications, web services, and mobile apps. What you will learn

Build cross-platform applications for Windows, macOS, Linux, iOS, and Android

Explore ASP.NET Core 3.0 and create professional web applications

Learn object-oriented programming and C# multitasking

Query and manipulate data using LINQ

Use Entity Framework Core and work with relational databases

Discover Windows app development using the Universal Windows Platform and XAML

Build mobile applications for iOS and Android using Xamarin.Forms

Who this book is for

Readers with some prior programming experience or with a science, technology, engineering, or mathematics (STEM) background, who want to gain a solid foundation with C# 8.0 and .NET Core 3.0.

ASP.NET Core MVC 2.0 Cookbook Mar 01 2020

Learn to implement ASP.NET Core features to build effective software that can be scaled and maintained easily

Key Features

Practical solutions to recurring issues in the web development world

Recipes on the latest features of ASP.Net Core 2.0

Coverage of Bootstrap, Angular, and JavaScript lets you supercharge your frontend

Book Description

The ASP.NET Core 2.0 Framework has been designed to meet all the needs of today's web developers. It provides better control, support for test-driven development, and cleaner code. Moreover, it's lightweight and allows you to run apps on Windows, OSX and Linux, making it the most popular web framework with modern day developers. This book takes a unique approach to web development, using real-world examples to guide you through problems with ASP.NET Core 2.0 web applications. It covers Visual Studio 2017- and ASP.NET Core 2.0-specific changes and provides general MVC development recipes. It explores setting up .NET Core, Visual Studio 2017, Node.js modules, and NuGet. Next, it shows you how to work with Inversion of Control data pattern and caching. We explore everyday ASP.NET Core MVC 2.0 patterns and go beyond it into troubleshooting. Finally, we lead you through migrating, hosting, and deploying your code. By the end of the book, you'll not only have explored every aspect of ASP.NET Core MVC 2.0, you'll also have a reference you can keep coming back to whenever you need to get the job done. What you will learn

Build ASP.Net Core 2.0 applications using HTTP services with WebApi

Learn to unit-test, load test, and perform test applications using client-side and server-side frameworks

Debug, monitor and troubleshoot ASP.Net Core 2.0 applications using popular tools

Reuse components with NuGet and create modular components with middleware

Create applications using client-side technologies such as HTML5, JavaScript, jQuery, and Angular

Build responsive and dynamic UIs for your MVC apps using Bootstrap

Leverage tools like Karma, Jasmine, QUnit, xUnit, Selenium, Microsoft Fakes, and Visual Studio 2017 Enterprise

Who this book is for

This book is

written for the ASP.NET developer who wants to deliver professional-standard software, quickly and efficiently. It's filled with hands-on recipes, practical advice, and guidance to help developers with every aspect of the ASP.NET development cycle. Whether you've just started out or are a seasoned pro, the Asp.Net Core 2.0 Cookbook is written for you.

Creating ASP.NET Core Web Applications Aug 06 2020 Design and develop an ASP.NET Core web application using .NET Core 3.0. This book shows you how to publish a web application to a web server and connect the published web application to a production database. Creating ASP.NET Core Web Applications starts by setting up the Visual Studio project where you will learn about Razor pages, Entities, and creating a data service. You will create models along with methods to use a query string and handle bad requests. Modifying data with Tag helpers is discussed as well as installation of Entity Framework, working with database migrations, and implementing a data access service. You will learn how to use layout pages and sections with Partial Views, `_ViewImports`, and `_ViewStart` files. You also will create custom middleware and log application events. You will be able to deploy the web application as well as connect it to a SQL Server database. You will:

- Work with models
- Modify data
- Work with EF Core and SQL Server
- Work with Razor pages and Partial Views
- Use separate scripts for production vs development
- Trace client-side errors using Chrome Developer tools
- Create cascading style sheets (CSS) with Sassy CSS (SCSS)
- Explore middleware
- Deploy your web application to IIS.

Learning ASP.NET Core 2.0 May 27 2022 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

Pro Microservices in .NET 6 Jun 23 2019 Know the fundamentals of creating and deploying microservices using .NET 6 and gain insight from prescriptive guidance in this book on the when and why to incorporate them. The microservices architecture is a way of distributing process workloads to independent applications. This distribution allows for the independent applications to scale and evolve separately. It also enables developers to dismantle large applications into smaller, easier-to-maintain, scalable parts. While the return is valuable and the concept straightforward, applying it to an application is far more complicated. Where do you start? How do you find the optimal dividing point for your app, and strategically, how should your app be parceled out into separate services? *Pro Microservices in .NET 6* will introduce you to all that and more. The authors get you started with an overview of microservices, .NET 6, event storming, and domain-driven design. You will use that foundational information to build a reference application throughout the book. From there, you will create your first microservice using .NET 6 that you can deploy into Docker and Azure Kubernetes Service. You will also learn about communication styles, decentralizing data, and testing microservices. Finally, you will learn about logging, metrics, tracing, and use that information for debugging. What You Will Learn Build a foundation of basic microservices architecture design Follow an example of using event storming and domain-driven design to understand the monolithic application modified for microservices Understand, via detailed commands, how Docker is used to containerize applications Get an overview of creating microservices from a monolithic application Call microservices using RPC and messaging communication styles with MassTransit Comprehend decentralizing data and handling distributed transactions Use Azure Kubernetes Service to host and scale your microservices Know the methods to make your microservices more robust Discover testing techniques for RPC and messaging communication styles Apply the applications you build for actual use Practice cross-cutting concerns such as logging, metrics, and tracing Who This Book Is For Developers and software architects. Readers should have basic familiarity with Visual Studio and experience with .NET, ASP.NET Core, and C#.

[Asp.net Core in Action](#) May 15 2021 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.

C# and .NET Core Test-Driven Development Aug 18 2021 Learn how to apply a test-driven development process by building ready C# 7 and .NET Core applications. Key Features Create tests to quickly detect and resolve issues when writing portable code Uncover code integration issues that improve code quality using continuous integration Set up and use data-driven unit testing to verify your code Book Description This book guides developers to create robust, production-ready C# 7 and .NET Core applications through the practice of test-driven development process. In C# and .NET Core Test-Driven Development, you will learn the different stages of the TDD life cycle, basics of TDD, best practices, and anti-patterns. It will teach you how to create an ASP.NET Core MVC sample application, write testable code with SOLID principles and set up a dependency injection for your sample application. Next, you will learn the xUnit testing framework and learn how to use its attributes and assertions. You'll see how to create data-driven unit tests and mock dependencies in your code. You will understand the difference between running and debugging your tests on .NET Core on LINUX versus Windows and Visual Studio. As you move forward, you will be able to create a healthy continuous integration process for your sample application using GitHub, TeamCity, Cake, and Microsoft VSTS. By the end of this book, you will have learned how to write clean and robust code through the effective practice of TDD, set up CI build steps to test and build applications as well as how to package application for deployment on NuGet. What you will learn Write flexible, maintainable, and verifiable code for .NET Core Write testable code using SOLID principles and dependency injections Recognize the characteristics of a good unit test Structure and group your unit test Use mock objects to handle dependencies Set up an end-to-end continuous integration process Who this book is for This book is for .NET developers who would like to build efficient applications by implementing principles of test-driven development. C# programming and working knowledge of VS is assumed.

ASP.NET Core: Cloud-ready, Enterprise Web Application Development Nov 08 2020 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 a Web App with Blazor and ASP .Net Core Feb 09 2021 Learn how to create and deploy a SPA in C# with Blazor KEY FEATURES - Get familiar with the basic and advanced concepts of the Blazor framework - Understand how to implement JavaScript interop in Blazor - Learn how to inject the service dependency in Blazor - Learn how to implement security using Authentication and authorization - Deploy and host your Blazor app on IIS and Azure DESCRIPTION Blazor is a new, open-source, and SPA web framework that allows you to build a web application using C# and HTML. Blazor enables you to write C# code instead of JavaScript. This book is a comprehensive guide about the new modern Blazor framework. It begins with an introduction to the Blazor and its components and concepts. It explains how you can start the development process, what tools you can use to develop an application, and how you can deploy it. You will then learn more about Databind, Eventbinding, layout, routing, JavaScript interop, and Dependency Injection. Concepts such as Authentication and authorization, error handling are also covered. Towards the end, you will learn how to deploy your Single Page Application Using Blazor. WHAT WILL YOU LEARN - Explore and use a various way to create a Blazor component - Get familiar with the working of Data Binding, Event Binding, Layouts, Routing, and Validation - Learn how to invoke JavaScript functions from .NET methods - Preserving State in Server-Side Blazor applications - Authentication and Authorization using Facebook API & Google API - Host and Deploy your Blazo app on IIS and Azure WHO THIS BOOK IS FOR

This book is for web developers who want to use Blazor to build web apps. This book will also help and guide web developers who are currently using Blazor. TABLE OF CONTENTS 1. An Introduction to Blazor 2. Components and Structure for Blazor Applications 3. Blazor Concepts 4. Dependency injection in Blazor 5. JavaScript interop 6. State management 7. Authentication and Authorization 8. Handle & Log errors in Blazor Application 9. Getting Started with Blazor Using Visual Studio 2019 10. Hosting and Deployment

Building Web Applications with .NET Core 2.1 and JavaScript Sep 30 2022 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.

ASP.NET Core in Action Jun 15 2021 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
Third Many-core Applications Research Community (MARC) Symposium Sep 06 2020

Microservices For .NET Dec 22 2021 Architect your .NET applications by breaking them into really small pieces-microservices-using this practical, example-based guide About This Book* This book will show you the basics of microservices and when you should consider this architectural style* This book will help you understand how to implement separate services using the C#, ASP.NET MVC/Web API, and more* You'll learn to integrate services using ASP.NET Web API and Azure Service Bus Who This Book Is For This book is for .NET developers who are familiar with .NET framework and now want to learn how to implement microservices architecture in their .NET applications. It's ideal for developers who are completely new to Microservices or have just a theoretical understanding of this architectural approach and want to gain a practical perspective in order to better manage application complexity What You Will Learn* Compare microservices with Monolithic and SOA* Identify the appropriate service boundaries by mapping them to the relevant Bounded Contexts* Define the service interface and implement the APIs using ASP.NET Web API* Integrate the services via synchronous and asynchronous mechanisms* Implement service security policies using Azure Active Directory, OpenId Connect, and OAuth* Configure Azure Diagnostics and automatic scaling policies in Azure In Detail Microservices is an architectural style that promotes the development of complex applications as a suite of small services based on business capabilities. This book will help you identify the appropriate service boundaries within the business domain to ensure high cohesion and to define the correct service interfaces to promote loose coupling. We'll start by looking at what microservices are, what the main characteristics are, and how they compare with Monolithic and SOA approaches. Next, we'll briefly go through the benefits of using

this style, the challenges to consider, and the prerequisites to succeed when engaging in this approach. Moving forward, you'll be introduced to a real-life application, implemented initially as a Monolith that is currently struggling to cope with increasing user demand and complexity. After assessing the current issues, we will begin the journey of transforming this application by splitting it into a suite of microservices. You'll identify the business domain boundaries as a reference for our service boundaries, split the application into multiple services, and define the service contracts. You'll be able to choose the appropriate integration techniques, set up an automated infrastructure to handle testing and deployment, and implement appropriate security policies to keep our services safe from unauthorized access. You'll find out how to configure and implement monitoring to ensure the health of our services, and configuring scaling to allow our application to quickly adapt to increased demand in the future.

Proceedings of the 4th Many-core Applications Research Community (MARC) Symposium Jun 03 2020 In continuation of a successful series of events, the 4th Many-core Applications Research Community (MARC) symposium took place at the HPI in Potsdam on December 8th and 9th 2011. Over 60 researchers from different fields presented their work on many-core hardware architectures, their programming models, and the resulting research questions for the upcoming generation of heterogeneous parallel systems.

Modern Web Development with ASP.NET Core 3 Jan 11 2021 Explore the tools and techniques to build scalable and secured RESTful web services and web applications using C# 8 and ASP.NET Core 3.1 Key Features Delve into MVC patterns, configuration, routing, and deployment to build professional-grade applications Learn how to integrate ASP applications with the JavaScript frameworks React, Vue, and Angular Improve the performance of applications and the development team by implementing advanced ASP.NET Core concepts Book Description ASP.NET has been the preferred choice of web developers for a long time. With ASP.NET Core 3, Microsoft has made internal changes to the framework along with introducing new additions that will change the way you approach web development. This second edition has been thoroughly updated to help you make the most of the latest features in the framework, right from gRPC and conventions to Blazor, which has a new chapter dedicated to it. You'll begin with an overview of the essential topics, exploring the Model-View-Controller (MVC) pattern, various platforms, dependencies, and frameworks. Next, you'll learn how to set up and configure the MVC environment, before delving into advanced routing options. As you advance, you'll get to grips with controllers and actions to process requests, and later understand how to create HTML inputs for models. Moving on, you'll discover the essential aspects of syntax and processes when working with Razor. You'll also get up to speed with client-side development and explore the testing, logging, scalability, and security aspects of ASP.NET Core. Finally, you'll learn how to deploy ASP.NET Core to several environments, such as Azure, Amazon Web Services (AWS), and Docker. By the end of the book, you'll be well versed in development in ASP.NET Core and will have a deep understanding of how to interact with the framework and work cross-platform. What you will learn Understand the new capabilities of ASP.NET Core 3.1 Become well versed in how to configure

ASP.NET Core to use it to its full potential
Create controllers and action methods, and understand how to maintain state
Implement and validate forms and retrieve information from them
Improve productivity by enforcing reuse, process forms, and effective security measures
Delve into the new Blazor development model
Deploy ASP.NET Core applications to new environments, such as Microsoft Azure, AWS, and Docker
Who this book is for
If you are a developer with basic knowledge of ASP.NET MVC and want to build powerful applications, then this book is for you. Developers who want to explore the latest changes in ASP.NET Core 3.1 to build professional-level applications will also find this book useful. Familiarity with C#, ASP.NET Core, HTML, and CSS is expected to get the most out of this book.

Building Single Page Applications in .NET Core 3
Nov 28 2019
Attention .NET developers who no longer want to use JavaScript for your front end. Quickly and efficiently learn how to use C# for your single-page application (SPA) thanks to Blazor. Today's reality is that most modern applications are web-based and if you want the same user experience as a desktop application, you need to be able to create a single-page application. While there are multiple frameworks and libraries to choose from (including Angular, React, and VueJS), you still need to know how to code in JavaScript. But now there is another option from Microsoft. Blazor is an open-source framework that enables developers to create web applications using C# and HTML, and everything you need to get started is covered in this guide. You will learn the steps, through build-along coding examples, that will allow you to use the same language for both the front end and the back end of your application. This book is designed to get you comfortable creating a single-page application in the shortest time possible. Get ready to create a complete business application that teaches and reinforces the skills you need in a Blazor production environment. What You Will Learn
Develop the front end of an application using C# and .NET Core
Use this quick-start for .NET developers who need to improve their application with a single-page front end
Take a code-first approach that models an actual business application
Gain insights for developing a high-functioning and maintainable application
Study guidance on repurposing your .NET skill set
Who This Book Is For
C# and .NET developers who have some experience in web development

C# 7 and .NET: Designing Modern Cross-platform Applications
Feb 21 2022
Explore C# and the .NET Core framework to create applications and optimize them with ASP.NET Core 2
Key Features
Get to grips with multi-threaded, concurrent, and asynchronous programming in C# and .NET Core
Develop modern, cross-platform applications with .NET Core 2.0 and C# 7.0
Create efficient web applications with ASP.NET Core 2.
Book Description
C# is a widely used programming language, thanks to its easy learning curve, versatility, and support for modern paradigms. The language is used to create desktop apps, background services, web apps, and mobile apps. .NET Core is open source and compatible with Mac OS and Linux. There is no limit to what you can achieve with C# and .NET Core. This Learning Path begins with the basics of C# and object-oriented programming (OOP) and explores features of C#, such as tuples, pattern matching, and out variables. You will understand .NET Standard 2.0 class libraries and ASP.NET Core 2.0, and

create professional websites, services, and applications. You will become familiar with mobile app development using Xamarin.Forms and learn to develop high-performing applications by writing optimized code with various profiling techniques. By the end of *C# 7 and .NET: Designing Modern Cross-platform Applications*, you will have all the knowledge required to build modern, cross-platform apps using C# and .NET. This Learning Path includes content from the following Packt products: *C# 7.1 and .NET Core 2.0 - Modern Cross-Platform Development - Third Edition* by Mark J. Price, *C# 7 and .NET Core 2.0 High Performance* by Ovais Mehboob Ahmed Khan. What you will learn: Explore ASP.NET Core to create professional web applications; Master OOP with C# to increase code reusability and efficiency; Protect your data using encryption and hashing; Measure application performance using BenchmarkDotNet; Use design techniques to increase your application's performance; Learn memory management techniques in .NET Core; Understand tools and techniques to monitor application performance. Who this book is for: This Learning Path is designed for developers who want to gain a solid foundation in C# and .NET Core, and want to build cross-platform applications. To gain maximum benefit from this Learning Path, you must have basic knowledge of C#.

Advanced Indirect Cycle Water Reactor Studies for Maritime Applications: Spike core concept Jan 29 2020

C# 8 and .NET Core 3 Projects Using Azure Oct 27 2019 Get up to speed with using C# 8 and .NET Core 3.0 features to build real-world .NET Core applications. Key Features: Learn the core concepts of web applications, serverless computing, and microservices; Create an ASP.NET Core MVC application using controllers, routing, middleware and authentication; Build modern applications using cutting-edge services from Microsoft Azure. Book Description: .NET Core is a general-purpose, modular, cross-platform, and opensource implementation of .NET. The latest release of .NET Core 3 comes with improved performance and security features, along with support for desktop applications. .NET Core 3 is not only useful for new developers looking to start learning the framework, but also for legacy developers interested in migrating their apps. Updated with the latest features and enhancements, this updated second edition is a step-by-step, project-based guide. The book starts with a brief introduction to the key features of C# 8 and .NET Core 3. You'll learn to work with relational data using Entity Framework Core 3, before understanding how to use ASP.NET Core. As you progress, you'll discover how you can use .NET Core to create cross-platform applications. Later, the book will show you how to upgrade your old WinForms apps to .NET Core 3. The concluding chapters will then help you use SignalR effectively to add real-time functionality to your applications, before demonstrating how to implement MongoDB in your apps. Finally, you'll delve into serverless computing and how to build microservices using Docker and Kubernetes. By the end of this book, you'll be proficient in developing applications using .NET Core 3. What you will learn: Understand how to incorporate the Entity Framework Core 3 to build ASP.NET Core MVC applications; Create a real-time chat application using Azure's SignalR service; Gain hands-on experience of working with Cosmos DB; Develop an Azure Function and interface it with an Azure Logic App; Explore user authentication with Identity Server and OAuth2; Understand how to use Azure Cognitive Services to add advanced functionalities with minimal code; Get to grips with

running a .NET Core application with Kubernetes Who this book is for This book is for developers and programmers of all levels who want to build real-world projects and explore the new features of .NET Core 3. Developers working on legacy desktop software who are looking to migrate to .NET Core 3 will also find this book useful. Basic knowledge of .NET Core and C# is assumed.

A Small Magnetic Core Digital Computer for Special Applications Aug 25 2019 A small externally programmed, digital computer employing static switching elements was designed to reduce specific items of test loop data into operational information for controlling the test. Block diagrams were used to develop the operational philosophy and the various magnetic core circuits. The computer operates in the binary system from an 8, 4, 2, 1 code, and five arithmetic operations have been programmed. The arithmetic routines are such that the decimal equivalent of all numbers in the computations are never less than 0.001 nor greater than 1023.999. Schematic wiring diagrams were drawn for the computer sections and sizes of all circuit elements were tabulated.

C# 8.0 and .NET Core 3.0 - Modern Cross-Platform Development Jan 23 2022 Learn the fundamentals, practical applications, and latest features of C# 8.0 and .NET Core 3.0 from expert teacher Mark J. Price. Key Features Build modern, cross-platform applications with .NET Core 3.0 Get up to speed with C#, and up to date with all the latest features of C# 8.0 Start creating professional web applications with ASP.NET Core 3.0 Book Description In C# 8.0 and .NET Core 3.0 - Modern Cross-Platform Development, Fourth Edition, expert teacher Mark J. Price gives you everything you need to start programming C# applications. This latest edition uses the popular Visual Studio Code editor to work across all major operating systems. It is fully updated and expanded with new chapters on Content Management Systems (CMS) and machine learning with ML.NET. The book covers all the topics you need. Part 1 teaches the fundamentals of C#, including object-oriented programming, and new C# 8.0 features such as nullable reference types, simplified switch pattern matching, and default interface methods. Part 2 covers the .NET Standard APIs, such as managing and querying data, monitoring and improving performance, working with the filesystem, async streams, serialization, and encryption. Part 3 provides examples of cross-platform applications you can build and deploy, such as web apps using ASP.NET Core or mobile apps using Xamarin.Forms. The book introduces three technologies for building Windows desktop applications including Windows Forms, Windows Presentation Foundation (WPF), and Universal Windows Platform (UWP) apps, as well as web applications, web services, and mobile apps. What you will learn Build cross-platform applications for Windows, macOS, Linux, iOS, and Android Explore application development with C# 8.0 and .NET Core 3.0 Explore ASP.NET Core 3.0 and create professional web applications Learn object-oriented programming and C# multitasking Query and manipulate data using LINQ Use Entity Framework Core and work with relational databases Discover Windows app development using the Universal Windows Platform and XAML Build mobile applications for iOS and Android using Xamarin.Forms Who this book is for Readers with some prior programming experience or with a science, technology, engineering, or mathematics (STEM) background, who want to gain a solid foundation with C# 8.0 and .NET Core 3.0.

Customizing ASP.NET Core 6.0 Sep 18 2021 Explore hidden behaviors and customization techniques to help you get the most out of ASP.NET Core for building web applications Key Features Second edition updated and enhanced to cover the latest .NET 6 features and changes Learn expert techniques to implement authentication and authorization for securing your web apps Discover best practices for configuring ASP.NET Core, from user interface design to hosting it on platforms Book Description ASP.NET Core comes packed full of hidden features for building sophisticated web applications. You'd be missing out on a lot of its capabilities by not customizing it to work for your applications. With *Customizing ASP.NET Core 6.0*, you'll discover techniques to help you get the most out of the framework to deliver robust applications. In this updated second edition, you'll cover the latest features and changes in the .NET 6 LTS version. You'll find new insights and customization techniques for important topics such as authentication and authorization. The book will also show you how to work with caches and change the default behavior of ASP.NET Core apps. You'll learn essential concepts relating to optimizing the framework, such as configuration, dependency injection, routing, action filters, and more. As you progress, you'll be able to create custom solutions that meet the needs of your use case with ASP.NET Core. Later chapters will cover expert techniques and best practices for using the framework for your app development needs, from UI design to hosting. Finally, you'll focus on the new endpoint routing in ASP.NET Core to build custom endpoints and add third-party endpoints to your web apps for processing requests faster. By the end of this book, you'll be able to customize ASP.NET Core to develop robust optimized apps. What you will learn Explore various application configurations and providers in ASP.NET Core 6 Enable and work with caches to improve the performance of your application Understand dependency injection in .NET and learn how to add third-party DI containers Discover the concept of middleware and write your middleware for ASP.NET Core apps Create various API output formats in your API-driven projects Get familiar with different hosting models for your ASP.NET Core app Who this book is for This .NET 6 book is for .NET developers who need to change the default behaviors of the framework to help improve the performance of their applications. Intermediate-level knowledge of ASP.NET Core and C# is required before getting started with the book.

C# 7.1 and .NET Core 2.0 – Modern Cross-Platform Development Jul 05 2020 C# 7.1 and .NET Core 2.0 – Modern Cross-Platform Development, Third Edition is a practical guide to creating powerful cross-platform applications with C# 7 and .NET Core 2.0. About This Book Build modern, cross-platform applications with .NET Core 2.0 Get up to speed with C#, and up to date with all the latest features of C# 7.1 Start creating professional web applications with ASP.NET Core 2.0 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# 7.1 and .NET Core 2.0 Explore ASP.NET Core 2.0 and learn how to create professional websites, services, and applications Improve your application's performance using multitasking Use Entity Framework Core and LINQ to query and manipulate data Master object-

oriented programming with C# to increase code reuse and efficiency Familiarize yourself with cross-device app development using the Universal Windows Platform Protect and manage your files and data with encryption, streams, and serialization Get started with mobile app development using Xamarin.Forms Preview the nullable reference type feature of C# 8 In Detail C# 7.1 and .NET Core 2.0 – Modern Cross-Platform Development, Third Edition, is a practical guide to creating powerful cross-platform applications with C# 7.1 and .NET Core 2.0. It gives readers of any experience level a solid foundation in C# and .NET. The first part of the book runs you through the basics of C#, as well as debugging functions and object-oriented programming, before taking a quick tour through the latest features of C# 7.1 such as default literals, tuples, inferred tuple names, pattern matching, out variables, and more. After quickly taking you through C# and how .NET works, this book dives into the .NET Standard 2.0 class libraries, covering topics such as packaging and deploying your own libraries, and using common libraries for working with collections, performance, monitoring, serialization, files, databases, and encryption. The final section of the book demonstrates the major types of application that you can build and deploy cross-device and cross-platform. In this section, you'll learn about websites, web applications, web services, Universal Windows Platform (UWP) apps, and mobile apps. 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. 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 2.0.

Building Single Page App Using ASP.NET Core and Angular Oct 08 2020 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

C# 7 and .NET Core 2.0 High Performance Jul 25 2019 Improve the speed of your code and optimize the performance of your apps
Key Features Understand the common performance pitfalls and improve your application's performance Get to grips with multi-threaded and asynchronous programming in C# Develop highly performant applications on .NET Core using microservice architecture
Book Description While writing an application, performance is paramount. Performance tuning for realworld applications often involves activities geared toward finding bottlenecks; however, this cannot solve the dreaded problem of slower code. If you want to improve the speed of your code and optimize an application's performance, then this book is for you. C# 7 and .NET Core 2.0 High Performance begins with an introduction to the new features of what?explaining how they help in improving an application's performance. Learn to identify the bottlenecks in writing programs and highlight common performance pitfalls, and learn strategies to detect and resolve these issues early. You will explore multithreading and asynchronous programming with .NET Core and learn the importance and efficient use of data structures. This is followed with memory management techniques and design guidelines to increase an application's performance. Gradually, the book will show you the importance of microservices architecture for building highly performant applications and implementing resiliency and security in .NET Core. After reading this book, you will learn how to structure and build scalable, optimized, and robust applications in C#7 and .NET. What you will learn Measure application performance using BenchmarkDotNet Explore the techniques to write multithreaded applications Leverage TPL and PLinq libraries to perform asynchronous operations Get familiar with data structures to write optimized code Understand design techniques to increase your application's performance Learn about memory management techniques in .NET Core Develop a containerized application based on microservices architecture Learn tools and techniques to monitor application performance Who this book is for This book is for .NET developers looking at improving the speed of their code or simply wanting to take their skills to the next level. Basic C# knowledge is assumed.

Building Web Applications with Visual Studio 2017 Nov 20 2021 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

Cross-Platform Modern Apps with VS Code Mar 13 2021 Simplified development of cross-platform applications by learning VS Code KEY FEATURES ? Covers sophisticated to simple web apps and webUIs development on VS Code with debugging. ? In-depth experimentation of VS Code including Machine Learning, NodeJS API and customized extensions. ? Provides refresher on popular tools like EF Core, Angular, Xamarin.Forms and Blazor. DESCRIPTION This book explores VS Code's core features, including multi-language IDE, rapid programming, and innovative front-end development, to show readers how to design and debug modern online and cloud applications. You will learn how to build native apps, spend less time working with the platform, and focus more on the creative aspects of generating a smart UI. While you learn and practise on VS Code, you build solid grounds on robust server-side programming. You will learn how to use VS Code to develop your javascript, typescript, nodejs, or angular app more quickly and easily. Not only an application development environment, but VS Code also enables you to create microservices, extensions, and cloud applications. Not only can you construct applications with VS Code, but you can also develop microservices, extensions, and cloud applications. Throughout the book, you get trained on Entity Framework Core, Razor, Xamarin.Forms and numerous APIs. This book not only prepares you to design multi-platform applications or work with Visual Studio Code, but it also prepares you to be a great developer who can alter the code, debug issues, and manage the many versions on your own. WHAT YOU WILL LEARN ? Engage Razor and ASP.NET Core to build dynamic web apps. ? Get a practical edge with Xamarin.Forms to experience the native development. ? Explore Entity Framework Core for building data-rich applications. ? Create a custom Visual Studio code extension for your application. ? Use a variety of APIs, such as NodeJS and Python, in your implementations. WHO THIS BOOK IS FOR This book caters to application developers and web developers who want to develop multi-platform applications and authentic practice of VS Code environment. You are not required to have any programming experience, though some understanding of application development may help speed up the learnings. TABLE OF CONTENTS 1. Comparing Visual Studio Code to Visual Studio 2. Up and Running with VS Code 3. Building Web UIs with Blazor 4. Building Websites with ASP.NET Core Razor Pages 5. Building Cross-Platform Mobile Apps with Xamarin.Forms 6. Building Web-Based Apps with Angular 7. Introducing Entity Framework Core 8. Exploring the Database Providers in Entity Framework Core 9. Building Multi-Platform Apps with Visual Studio Code 10. Building Services with Visual Studio Code 11. Application Deployment Options 12. Working with Python, Node.JS, and other APIs 13. Creating Custom Extensions in Visual Studio Code 14. Appendix A

Pro ASP.NET Core 3 Dec 10 2020 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 platform Apply ASP.NET Core 3 and ASP.NET Core 5 features in your developer environment; plentiful reusable templates See how to create RESTful web services, web applications, and client-side applications Leverage 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

Parallel Programming with C# and .NET Core Apr 13 2021 Learn, understand, and code parallel programs with confidence using C# 8 and .NET Core 3.0 KEY FEATURES - Explore and work with the new features and enhancements in .NET Core 3.1 and C# 8. - Understand the fundamentals of parallel programming. - Learn various threading patterns and synchronization constructs. - Build concurrent applications using C# and .NET Core 3.1 from the ground up. - Understand the principles of unit testing and debugging in concurrent applications. DESCRIPTION Application development has evolved over the last decade, and with the advent of the latest technologies like Angular, React on client-side, and ASP.NET Core, Spring on the server-side, the consumer expectations have risen like never before. The primary objective of this book is to help readers understand the importance of asynchronous programming and

various ways it can be achieved using .NET Core 3.1 and C# 8 to successfully build concurrent applications. Along the way reader will learn the fundamentals of threading, asynchronous programming, various asynchronous patterns, synchronisation constructs, unit testing parallel methods, debugging enterprise applications, and cool tips and tricks. There are samples based on practical examples that will help the reader effectively use parallel programming. By the end of this book, you will be equipped with all the knowledge needed to understand, code, and debug multithreaded, concurrent and parallel programs with confidence. **WHAT WILL YOU LEARN**

- Understand the internals of async/await. - Learn how to build applications using async/await. - Write unit tests for asynchronous methods. - Explore various debugging techniques for enterprise applications. - Discover cool tips, tricks, and best practices to help you avoid common mistakes. **WHO THIS BOOK IS FOR** Beginners and intermediate developers who build enterprise applications using .NET Core platform and tools. Advanced users can also use this book for brushing up fundamentals and for learning debugging tools, techniques, tips, and tricks. **TABLE OF CONTENTS** 1. Getting Started 2. What's new in C# 8? 3. .NET Core 3.1 4. Demystifying Threading 5. Parallel Programming 6. The Threading Patterns 7. Synchronization Constructs 8. Unit Testing Parallel and Asynchronous Programs 9. Debugging and Troubleshooting (Its spelling is incorrect in pdf) 10. Tips and Tricks

Multi-Core Computer Vision and Image Processing for Intelligent Applications Dec 30 2019 A multicore platform uses distributed or parallel computing in a single computer, and this can be used to assist image processing algorithms in reducing computational complexities. By implementing this novel approach, the performance of imaging, video, and vision algorithms would improve, leading the way for cost-effective devices like intelligent surveillance cameras. **Multi-Core Computer Vision and Image Processing for Intelligent Applications** is an essential publication outlining the future research opportunities and emerging technologies in the field of image processing, and the ways multi-core processing can further the field. This publication is ideal for policy makers, researchers, technology developers, and students of IT.

ASP.NET Core 6 and Angular Jul 17 2021

C# 9 and .NET 5 – Modern Cross-Platform Development Sep 26 2019 Publisher's Note: Microsoft will stop supporting .NET 5 in early May 2022. A new edition of this book is available that uses .NET 6 (an LTS release with support up until November 2024), C# 10, and Visual Studio 2022, as well as Visual Studio Code. **Key Features** • Explore the newest additions to C# 9, the .NET 5 class library, Entity Framework Core and Blazor • Strengthen your command of ASP.NET Core 5.0 and create professional websites and services • Build cross-platform apps for Windows, macOS, Linux, iOS, and Android **Book Description** In C# 9 and .NET 5 – Modern Cross-Platform Development, Fifth Edition, expert teacher Mark J. Price gives you everything you need to start programming C# applications. This latest edition uses the popular Visual Studio Code editor to work across all major operating systems. It is fully updated and expanded with a new chapter on the Microsoft Blazor framework. The book's first part teaches the fundamentals of C#, including object-oriented programming and new C# 9 features such as top-level programs, target-typed new object instantiation, and

immutable types using the record keyword. Part 2 covers the .NET APIs, for performing tasks like managing and querying data, monitoring and improving performance, and working with the file system, async streams, serialization, and encryption. Part 3 provides examples of cross-platform apps you can build and deploy, such as websites and services using ASP.NET Core or mobile apps using Xamarin.Forms. The best type of application for learning the C# language constructs and many of the .NET libraries is one that does not distract with unnecessary application code. For that reason, the C# and .NET topics covered in Chapters 1 to 13 feature console applications. In Chapters 14 to 20, having mastered the basics of the language and libraries, you will build practical applications using ASP.NET Core, Model-View-Controller (MVC), and Blazor. By the end of the book, you will have acquired the understanding and skills you need to use C# 9 and .NET 5 to create websites, services, and mobile apps. What you will learn

- Build your own types with object-oriented programming
- Query and manipulate data using LINQ
- Build websites and services using ASP.NET Core 5
- Create intelligent apps using machine learning
- Use Entity Framework Core and work with relational databases
- Discover Windows app development using the Universal Windows Platform and XAML
- Build rich web experiences using the Blazor framework
- Build mobile applications for iOS and Android using Xamarin.Forms

Who this book is for This book is best for C# and .NET beginners, or programmers who have worked with C# in the past but feel left behind by the changes in the past few years. This book doesn't expect you to have any C# or .NET experience; however, you should have a general understanding of programming. Students and professionals with a science, technology, engineering, or mathematics (STEM) background can certainly benefit from this book. Table of Contents

- Hello, C#! Welcome, .NET Core!
- Speaking C#
- Controlling Flow and Converting Types
- Writing, Debugging, and Testing Functions
- Building Your Own Types with Object-Oriented Programming
- Implementing Interfaces and Inheriting Classes
- Understanding and Packaging .NET Types
- Working with Common .NET Types
- Working with Files, Streams, and Serialization

(N.B. Please use the Look Inside option to see further chapters) Review "Mark Price's extraordinary book covers every aspect of C# 9 and .NET 5. It is filled with step-by-step demonstrations and will be of tremendous value both to those who want to learn C# and to more experienced C# programmers making the transition to C# 9. Highly recommended!" -- Jesse Liberty - author of Programming C# and Learning C# (O'Reilly Media)

C# 7 and .NET: Designing Modern Cross-Platform Applications Jun 27 2022 Explore C# and the .NET Core framework to create applications and optimize them with ASP.NET Core 2 Key Features Get to grips with multi-threaded, concurrent, and asynchronous programming in C# and .NET Core Develop modern, cross-platform applications with .NET Core 2.0 and C# 7.0 Create efficient web applications with ASP.NET Core 2. Book Description C# is a widely used programming language, thanks to its easy learning curve, versatility, and support for modern paradigms. The language is used to create desktop apps, background services, web apps, and mobile apps. .NET Core is open source and compatible with Mac OS and Linux. There is no limit to what you can achieve with C# and .NET Core. This Learning Path begins with the basics of C# and object-oriented programming (OOP) and explores features of C#

such as tuples, pattern matching, and out variables. You will understand .NET Standard 2.0 class libraries and ASP.NET Core 2.0, and create professional websites, services, and applications. You will become familiar with mobile app development using Xamarin.Forms and learn to develop high-performing applications by writing optimized code with various profiling techniques. By the end of C# 7 and .NET: Designing Modern Cross-platform Applications, you will have all the knowledge required to build modern, cross-platform apps using C# and .NET. This Learning Path includes content from the following Packt products: C# 7.1 and .NET Core 2.0 - Modern Cross-Platform Development - Third Edition by Mark J. Price C# 7 and .NET Core 2.0 High Performance by Ovais Mehboob Ahmed Khan What you will learn Explore ASP.NET Core to create professional web applications Master OOP with C# to increase code reusability and efficiency Protect your data using encryption and hashing Measure application performance using BenchmarkDotNet Use design techniques to increase your application's performance Learn memory management techniques in .NET Core Understand tools and techniques to monitor application performance Who this book is for This Learning Path is designed for developers who want to gain a solid foundation in C# and .NET Core, and want to build cross-platform applications. To gain maximum benefit from this Learning Path, you must have basic knowledge of C#.

ASP.NET Core 2 Fundamentals Oct 20 2021 Imagine the boost in business if you can build large, rich web applications with little code and built-in Windows authentication. With this book, you can gain skills to develop real-world applications with ASP.NET Core 2. Key Features Adopts the application-centric approach to explain core concepts Covers industry-best practices to build flexible, robust applications Shows how to enhance your applications by adding more functionalities Book Description The book sets the stage with an introduction to web applications and helps you build an understanding of the tried-and-true MVC architecture. You learn all about views, from what is the Razor view engine to tagging helpers. You gain insight into what models are, how to bind them, and how to migrate database using the correct model. As you get comfortable with the world of ASP.NET, you learn about validation and routing. You also learn the advanced concepts, such as designing Rest Buy (a RESTful shopping cart application), creating entities for it, and creating EF context and migrations. By the time you are done reading the book, you will be able to optimally use ASP.NET to develop, unit test, and deploy applications like a pro. What you will learn Work with basic programming constructs using the Razor view engine Use flexibility and data compartmentalization of ViewModel Build a custom route for ASP.NET MVC applications for SEO Optimize applications with performance analysis and improvement steps Improve application performance, security, and data access to optimize the overall development process Deploy an ASP.NET MVC application in a non-Windows environment Who this book is for If you are looking to build web applications using ASP.NET Core or you want to become a pro in building web applications using the Microsoft technology, this is the ideal book for you. Prior exposure and understanding of C#, JavaScript, HTML, and CSS syntax is assumed.

Metal Semiconductor Core-shell Nanostructures for Energy and Environmental Applications May 03 2020 Metal

Semiconductor Core-Shell Nanostructures for Energy and Environmental Applications provides a concise, scholarly overview of current research into the characterization of metal semiconductor core-shell nanostructures; the book shows how their properties can be best used in energy and environmental applications, particularly for solar cell and catalysis application. Coverage is also given to the effect of metal nanoparticle for charge generation or charge separation. The book is a valuable resource for academic researchers working in the areas of nanotechnology, sustainable energy and chemical engineering, and is also of great use to engineers working in photovoltaic and pollution industries. Includes a clear method for synthesis of core-shell nanomaterials Explores how metal semiconductor core-shell nanostructures can be used to improve the efficiency of solar cells Explains how the characteristics of metal semiconductor core-shell nanostructures make them particularly useful for sustainable energy and environmental applications

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