

Asp Net Core Signalr Github

Asp Net Core Signalr Github ASPNET Core SignalR RealTime Communication Made Easy GitHub Edition This comprehensive guide explores the powerful features of ASPNET Core SignalR a library that enables realtime bidirectional communication between clients and servers Well delve into its core functionalities implementation strategies and provide practical examples using GitHub repositories for hands on learning ASPNET Core SignalR RealTime Communication WebSockets ServerSide Blazor Client Side Blazor GitHub Examples Tutorials ASPNET Core SignalR is a gamechanger for developers seeking to add realtime functionality to their web applications From interactive chat applications and live dashboards to collaborative editing tools and gaming experiences SignalR unlocks a world of possibilities This guide will equip you with the knowledge to master this powerful technology covering everything from fundamental concepts to advanced techniques Well explore different SignalR hubs clientside implementations and the flexibility of integrating it with other frameworks like Blazor GitHub Resources Throughout this guide we will reference numerous GitHub repositories showcasing various SignalR implementations and demonstrating best practices These resources offer a wealth of practical examples to kickstart your realtime communication journey

Key Concepts

- 1 RealTime Communication SignalR enables realtime communication between clients and servers allowing data to be pushed to clients instantly without the need for constant polling This creates a highly responsive and engaging user experience
- 2 Bidirectional Communication Unlike traditional HTTP requests where clients initiate communication SignalR establishes a persistent connection between the client and server enabling bidirectional communication This allows both sides to initiate actions and receive updates in realtime
- 3 Hubs SignalR uses hubs as the primary mechanism for communication Hubs are classes that define methods clients can call and methods servers can invoke on clients They act as central points for managing and orchestrating realtime interactions
- 4 Clients SignalR provides client libraries for various platforms including JavaScript NET and others These libraries enable clients to connect to SignalR hubs and interact with them using their defined methods
- 5 ServerSide Blazor SignalR plays a crucial role in enabling serverside Blazors realtime capabilities It facilitates communication between Blazor components and the server allowing updates and interactions to be seamlessly reflected in the user interface

Implementation Strategies

- 1 Hub Creation Define a hub class with methods that clients can call and methods servers can invoke Decorate these methods with `HubMethodName` attributes to define the method names accessible to clients
- 2 Client Connection Use the provided SignalR client libraries to establish a connection to the SignalR hub This usually involves specifying the server URL and the desired hub name
- 3 ClientSide Communication Once connected clients can invoke methods on the hub by calling them using the SignalR client library This triggers the corresponding serverside hub methods
- 4 ServerSide Communication The server can send data to clients by invoking methods on the connected clients using the `Clients` property of the hub These methods will be executed on the clientside updating the user

interface or performing other actions

5 Message Handling

Use the SignalR library to handle messages received from the server. These messages can contain data, events, or notifications that need to be processed by the client application.

GitHub Repositories

- SignalRChat**: A simple chat application demonstrating basic SignalR functionality. <https://github.com/dotnet/aspnetcore/tree/main/src/SignalR/samples/Chat>
- SignalRBlazor**: A sample project showcasing how to integrate SignalR with Blazor for building real-time web applications. <https://github.com/dotnet/aspnetcore/tree/main/src/SignalR/samples/Blazor>
- SignalRRealTimeDashboard**: A comprehensive example of using SignalR to create a real-time dashboard application. <https://github.com/dotnet/aspnetcore/tree/main/src/SignalR/samples/RealTimeDashboard>
- SignalRGame**: A game example demonstrating the use of SignalR for multiplayer game development. <https://github.com/dotnet/aspnetcore/tree/main/src/SignalR/samples/Game>
- SignalRCollaborativeEditing**: A collaborative editing tool built using SignalR to enable real-time document coauthoring. <https://github.com/dotnet/aspnetcore/tree/main/src/SignalR/samples/CollaborativeEditing>

Advantages of Using ASP.NET Core SignalR

- Realtime communication**: Enables instant updates and interactions between clients and servers.
- Bidirectional communication**: Supports both client-to-server and server-to-client communication.
- Scalability**: Can handle a large number of clients simultaneously.
- Crossplatform compatibility**: Works across various platforms and browsers.
- Integration with ASP.NET Core**: Seamlessly integrates with ASP.NET Core applications.
- Rich client libraries**: Provides client libraries for various platforms, including JavaScript, .NET, and others.
- Extensive community support**: Has a vibrant community with ample resources and support.

Thought-Provoking Conclusion

ASP.NET Core SignalR is a powerful tool for modern web development, empowering developers to build highly interactive and engaging user experiences. Its ability to establish real-time communication opens a vast array of possibilities for creating applications that were once limited by traditional HTTP request-response paradigms. By embracing this technology, developers can unlock the full potential of the web, bringing dynamic and seamless interactions to their users. However, remember that real-time communication comes with its own set of challenges, such as managing state, handling connection failures, and ensuring scalability. By diligently considering these factors and leveraging the resources available, you can harness the power of SignalR to build exceptional real-time web applications.

FAQs

- What are the different ways to establish a connection with SignalR?** SignalR supports several transport mechanisms for establishing connections, including WebSockets, Server-Sent Events (SSE), and long polling. WebSockets is the preferred method for real-time communication, offering the best performance and reliability. However, if WebSockets is not supported by the browser or the environment, SignalR will fallback to the other transport mechanisms to maintain connectivity.
- How can I manage user authentication and authorization within SignalR?** SignalR itself doesn't handle user authentication and authorization. It relies on the underlying ASP.NET Core authentication system to authenticate users. Once a user is authenticated, you can use SignalR's authorization mechanisms to control access to specific hub methods based on the user's roles or permissions.
- How can I handle disconnections and reconnections in SignalR?** SignalR provides events to handle connection changes, allowing you to respond to disconnections and reconnections appropriately. You can use the `OnConnected` and `OnDisconnected` events to perform actions such as updating user lists, clearing data, or initiating reconnection attempts.
- How can I scale SignalR for large numbers of users?** SignalR can be scaled by using techniques such as load balancing, clustering, and using a distributed cache. By leveraging these strategies, you can ensure that SignalR can handle a large number of concurrent users and maintain optimal performance.
- What are the benefits of using SignalR with Blazor?** Combining SignalR with Blazor provides a powerful and efficient way to build real-time web applications.

SignalR handles the realtime communication between the Blazor components and the server allowing for seamless updates and interactions This results in a highly responsive and engaging user experience without the need for constant page reloads

Real-Time Web Application Development ASP.NET Core 6 and Angular Pro ASP.NET SignalR Professional C# 7 and .NET Core 2.0 SignalR on .NET 6 - the Complete Guide Web API Development with ASP.NET Core 8 C# 7 and .NET Core 2.0 Blueprints C# 8 and .NET Core 3 Projects Using Azure Blazor WebAssembly by Example Pragmatic Microservices with C# and Azure Web Applications with ASP.NET Core Blazor Professional C# 6 and .NET Core 1.0 ASP.NET Core 3 and React ASP.NET Core 9 Essentials Customizing ASP.NET Core 6.0 Customizing ASP.NET Core 5.0 Modern Web Development with ASP.NET Core 3 Learn WinUI 3 Learning Blazor ASP. NET 9 Core Web API Cookbook Rami Vemula Valerio De Sanctis Keyvan Nayyeri Christian Nagel Fiodar Sazanavets Xiaodi Yan Dirk Strauss Paul Michaels Toi B. Wright Christian Nagel Brian Ding Christian Nagel Carl Rippon Albert S. Tanure Jürgen Gutsch Jürgen Gutsch Ricardo Peres Alvin Ashcraft David Pine Luke Avedon Real-Time Web Application Development ASP.NET Core 6 and Angular Pro ASP.NET SignalR Professional C# 7 and .NET Core 2.0 SignalR on .NET 6 - the Complete Guide Web API Development with ASP.NET Core 8 C# 7 and .NET Core 2.0 Blueprints C# 8 and .NET Core 3 Projects Using Azure Blazor WebAssembly by Example Pragmatic Microservices with C# and Azure Web Applications with ASP.NET Core Blazor Professional C# 6 and .NET Core 1.0 ASP.NET Core 3 and React ASP.NET Core 9 Essentials Customizing ASP.NET Core 6.0 Customizing ASP.NET Core 5.0 Modern Web Development with ASP.NET Core 3 Learn WinUI 3 Learning Blazor ASP. NET 9 Core Web API Cookbook *Rami Vemula Valerio De Sanctis Keyvan Nayyeri Christian Nagel Fiodar Sazanavets Xiaodi Yan Dirk Strauss Paul Michaels Toi B. Wright Christian Nagel Brian Ding Christian Nagel Carl Rippon Albert S. Tanure Jürgen Gutsch Jürgen Gutsch Ricardo Peres Alvin Ashcraft David Pine Luke Avedon*

design develop and deploy a real world web application by leveraging modern open source technologies this book shows you how to use asp net core to build cross platform web applications along with signalr to enrich the application by enabling real time communication between server and clients you will use docker to containerize your application integrate with github to package the application and provide continuous deployment to azure s iaas platform along the way real time application development covers topics including designing a materialize css theme using a test driven development approach with xunit net and securing your application with the oauth 2 0 protocol to further your understanding of the technology you will learn logging and exception handling navigation using view components and how to work with forms and validations the rich code samples from this book can be used to retrofit or upgrade existing asp net core applications what you will learn design and develop a real world web application implement security and data storage with oauth2 and azure table storage orchestrate real time notifications through signalr use github and travis ci for continuous integration of code master docker containerization and continuous deployment with docker cloud to azure linux virtual machines who this book is for developers and software engineers interested in learning an end to end approach to application development using microsoft technologies

design build and deploy robust web applications using asp net 6 angular 13 and entity framework core key features the most up to date book that covers cutting edge features released in asp net core 6 and angular 13 create a production ready single page application spa or progressive application pwa adopt a full stack approach to handle data management api documentation apis end to end testing security and deployment book description every full stack ninja needs the tools to operate on front end and back end application development this web app development book takes a hands on project based approach to provide you with all the tools and techniques that web developers need to create debug and deploy efficient web applications using asp net core and angular the fifth edition has been updated to cover advanced topics such as minimal apis apis with graphql real time updates with signalr and new features in net 6 and angular 13 you begin by building a data model with entity framework core alongside utilizing the entity core fluent api and entitytypeconfiguration class you ll learn how to fetch and display data and handle user input with angular reactive forms and front end and back end validators for maximum effect later you will perform advanced debugging and explore the unit testing features provided by xunit net net 6 and jasmine as well as karma for angular after adding authentication and authorization to your apps you will explore progressive web applications learning about their technical requirements testing processes and how to convert a standard web application to a pwa by the end of this web development book you will understand how to tie together the front end and back end to build and deploy secure and robust web applications what you will learn use the new visual studio standalone typescript angular template implement and consume a api interface with asp net core set up an sql database server using a local instance or a cloud data store perform c and typescript debugging using visual studio 2022 create tdd and bdd unit tests using xunit jasmine and karma perform dbms structured logging using providers such as serilog deploy web apps to azure app service using iis kestrel and nginx learn to develop fast and flexible apis using graphql add real time capabilities to angular apps with asp net core signalr who this book is for this book is for experienced asp net developers who already possess some familiarity with asp net core and angular and are looking to learn how to use them effectively together the fully documented code samples also available on github and the step by step implementation tutorials make this book easy to follow

asp net signalr is the new solution to real time communication between servers and clients in net use it to push new data to a web page or mobile device as soon as it becomes available whether it s a notification live chat up to the minute financial data or a range of other exciting applications innovations like google live search and live facebook and twitter updates are pushing users expectations of the real time web with pro asp net signalr you can join this revolution and learn skills that will be valuable for years to come pro asp net signalr starts with an introduction to the real time web learn about the technologies underlying the signalr library such as websockets and long polling and how signalr elegantly flips between them depending on the capabilities of the client next meet the concepts of hubs and persistent connections and how to use them to build the components of an asp net signalr application find out how to extend test debug configure scale and host your applications and how to target a range of clients including windows and ios the book rounds off with two case studies a stock market price updater and a collaborative drawing application so you can get to grips with signalr in a realistic scenario using a broad range of the concepts covered in earlier chapters as real time updates to web and

mobile apps become the norm pro asp net signalr will be your in depth one stop companion to this new and exciting technology

the professional s guide to c 7 with expert guidance on the newest features professional c 7 and net core 2 0 provides experienced programmers with the information they need to work effectively with the world s leading programming language the latest c update added many new features that help you get more done in less time and this book is your ideal guide for getting up to speed quickly c 7 focuses on data consumption code simplification and performance with new support for local functions tuple types record types pattern matching non nullable reference types immutable types and better support for variables improvements to visual studio will bring significant changes to the way c developers interact with the space bringing net to non microsoft platforms and incorporating tools from other platforms like docker gulp and npm guided by a leading net expert and steeped in real world practicality this guide is designed to get you up to date and back to work with microsoft speeding up its release cadence while offering more significant improvement with each update it has never been more important to get a handle on new tools and features quickly this book is designed to do just that and more everything you need to know about c is right here in the single volume resource on every developer s shelf tour the many new and enhanced features packed into c 7 and net core 2 0 learn how the latest visual studio update makes developers jobs easier streamline your workflow with a new focus on code simplification and performance enhancement delve into improvements made for localization networking diagnostics deployments and more whether you re entirely new to c or just transitioning to c 7 having a solid grasp of the latest features allows you to exploit the language s full functionality to create robust high quality apps professional c 7 and net core 2 0 is the one stop guide to everything you need to know

are you a web developer or do you write internet of things iot software if so you would know that many web and iot development projects these days require the ability to establish a persistent connection between a client and a server without having to keep sending repeated requests from the client for example a user of a live chat would want to know in real time that they have received a new message or an iot device may need to be sent a command in real time as you may also know such functionality may be hard to implement however if you can build your server side application on asp net core there is a way to make this whole process easy there is a library called signalr which is included in asp net core signalr doesn t only enable you to achieve real time two way communication between applications it also substantially simplifies the process of enabling all of this in the code under the hood it uses various two way communication protocols such as websocket however it abstracts away all the implementation complexity of these protocols to the developer working with this library will mostly consists of writing simple and easily readable statements in this book we will cover everything you would need to know about using signalr on net 6 so you will see how to integrate it with the the latest features on asp net core 6 and c 10 we will cover much more than you can find in the official documentation of the library for example you will learn how to connect a plain websocket client to it which may help you to write a client in a language that isn t officially supported likewise we will cover many concepts that aren t directly related to signalr but are important to its production ready implementation these would include single sign on certificate authorization logging metrics and scaling out by the end of this book you would be able

to identify the situations where signalr is the best tool for the job and you would be fully able to implement it

develop web api applications using design patterns advanced customization and cutting edge technologies such as signalr grpc and graphql while leveraging powerful cloud platforms and tools to accelerate development key features gain proficiency in building modern asp net core web api applications develop the skills to effectively test debug and secure your web api applications streamline development workflows and boost productivity with cloud computing platforms and industry standard ci cd tools purchase of the print or kindle book includes a free pdf ebook book descriptionapi applications have become increasingly significant in recent years fueled by the ever accelerating pace of technological advancements however with this rapid evolution comes the need to create web api apps that are not only functional but also adaptable maintainable and scalable to meet the demands of users and businesses alike this book draws from the author s immense technical expertise and decades of experience in software development to help you address this challenge head on equipping you with the knowledge and skills required to develop web api apps from scratch by providing a deeper understanding of the various protocols implemented by asp net core including restful signalr websocket grpc and graphql supplemented by practical examples and optimization techniques such as using middleware testing caching and logging this book offers invaluable insights for both newcomers as well as seasoned developers to meet modern web development requirements additionally you ll discover how to use cloud platforms such as azure and azure devops to enhance the development and operational aspects of your application by the end of this book you ll be fully prepared to undertake enterprise grade web api projects with confidence harnessing the latest advancements in asp net core 8 to drive innovation what you will learn build a strong foundation in web api fundamentals explore the asp net core 8 framework and other industry standard libraries and tools for high performance scalable web apis apply essential software design patterns such as mvc dependency injection and the repository pattern use entity framework core for database operations and complex query creation implement robust security measures to protect against malicious attacks and data breaches deploy your application to the cloud using azure and leverage azure devops to implement ci cd who this book is for this book is for developers who want to learn how to build web apis with asp net core and create flexible maintainable scalable applications with net platform basic knowledge of c net and git will assist with understanding the concepts more easily

leverage the features of c 7 and net core 2 0 to build real world net core applications key features easy to follow real world projects that get you up and running with the new features of c 7 and net core 2 0 the practical applications will assist you with concepts such as entity framework core serverless computing and more in net core 2 0 explore oauth concepts and build asp net core applications using mongodb book description net core is a general purpose modular cross platform and open source implementation of net with the latest release of net core many more apis are expected to show up which will make apis consistent across net framework net core and xamarin this step by step guide will teach you the essential net core and c concepts with the help of real world projects the book starts with a brief introduction to the latest features of c 7 and net core 2 0 before moving on to explain how c 7 can be implemented using the object oriented paradigm you ll learn to work with relational

data using entity framework and see how to use asp net core practically this book will show you how net core allows the creations of cross platform applications you ll also learn about signalr to add real time functionality to your application then you will see how to use mongodb and how to implement mongodb into your applications you ll learn about serverless computing and oauth concepts along with running asp net core applications with docker compose this project based guide uses practical applications to demonstrate these concepts by the end of the book you ll be proficient in developing applications using net core 2.0 what you will learn how to incorporate entity framework core to build asp net core mvc applications get hands on experience with signalr and nuget packages working with mongodb in your asp net core mvc application get hands on experience with net core mvc middleware controllers views layouts routing and oauth implementing azure functions and learn what serverless computing means see how net core enables cross platform applications that run on windows macos and linux running a net core mvc application with docker compose who this book is for this book is for net developers who would like to master and implement c# 7 and net core 2.0 with practical projects basic knowledge of net core and c# is assumed

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

discover blueprints that explore various components of blazor c and net to help you build web apps without learning javascript key features explore complete easy to follow web projects using blazor build projects such as a weather app expense tracker and kanban board with real world applications understand and work with blazor webassembly effectively without spending too much time focusing on the theory book description blazor webassembly makes it possible to run c code on the browser instead of having to use javascript and does not rely on plugins or add ons the only technical requirement for using blazor webassembly is a browser that supports webassembly which as of today all modern browsers do blazor webassembly by example is a project based guide for learning how to build single page web applications using the blazor webassembly framework this book emphasizes the practical over the theoretical by providing detailed step by step instructions for each project you ll start by building simple standalone web applications and progress to developing more advanced hosted web applications with sql server backends each project covers a different aspect of the blazor webassembly ecosystem such as razor components javascript interop event handling application state and dependency injection the book is designed in such a way that you can complete the projects in any order by the end of this book you will have experience building a wide variety of single page web applications with net blazor webassembly and c what you will learn discover the power of the c language for both server side and client side web development use the blazor webassembly app project template to build your first blazor webassembly application use templated components and the razor class library to build and share a modal dialog box understand how to use javascript with blazor webassembly build a progressive web app pwa to enable native app like performance and speed understand dependency injection di in net to build a shopping cart app get to grips with net apis by building a task manager app who this book is for this book is for net web developers who are tired of constantly learning new javascript frameworks and wish to write web applications using blazor webassembly leveraging the power of net and c the book assumes beginner level knowledge of the c language net framework microsoft visual studio and web development concepts

unlock efficiency in software development by learning microservices with c net and azure key features benefit from step by step project based guidance on how to develop a full fledged microservices application gain extensive knowledge of microservices by covering essential concepts tools and methodologies use essential microsoft azure cloud native services and as alternatives for on premises environments purchase of the print or kindle book includes a free pdf ebook book description pragmatic microservices with c and azure introduces net aspire for microservices focusing on defining an app model utilizing service discovery and integrating with azure s native cloud services written by a microsoft mvp and seasoned software architect with over two decades of experience in net this book will help you get to grips with robust service development using net features like minimal apis grpc and signalr for real time communication aside from covering essential aspects of devops including testing methodologies such as unit integration and load testing you ll also explore logging and monitoring including opentelemetry using tools like azure log analytics application insights prometheus and grafana you ll learn about asynchronous communication leveraging queues and events through azure event hub and apache throughout the book theoretical aspects will be complemented by practical skills gained from building and deploying a fully functional microservices based application by the end you ll possess a deep understanding of microservices architecture hands on experience with various net technologies and azure services and the

ability to design build deploy and manage microservices applications effectively in both on premises and cloud environments what you will learn understand the advantages and practical applications of microservices utilize the cloud ready net aspire stack and tools for efficient development create robust restful apis using asp net core minimal apis implement seamless database integration with both relational and nosql databases containerize microservices with docker for better scalability and management deploy microservices to the azure container apps environment and kubernetes for robust cloud solutions implement logging metrics and distributed tracing to ensure reliability and performance who this book is for this book is for software developers architects and engineers who are interested in adopting microservices architecture using the net framework and microsoft azure both intermediate and advanced developers who have a foundational understanding of c asp net core and cloud computing concepts will find this book helpful

this book covers many different aspects of developing blazor applications a modern way to build rich ui web apps it also introduces methods to leverage net and its eco systems to build a modern enterprise application it features webassembly and how it can be written in any programming language the book also compares different blazor hosting models and the strategy to select a model that suits specific business requirements it is designed for web developers software engineers and tech enthusiasts looking to build robust interactive web applications using asp net core blazor using a demonstrative approach for blazor learners every chapter includes numerous code examples and a blazor source code analysis it covers basic blazor directives and components and how these concepts can be combined together to build a more complex customized component master modern deployment techniques with docker and kubernetes this book also explains some advanced techniques to control component rendering and improve performance companion files with code samples and color figures are available for downloading features code examples and detailed analysis to help you grasp blazor concepts effectively learn advanced component enhancement performance optimization and secure file handling master modern deployment techniques with docker and kubernetes ensuring your applications are production ready download companion files with code samples and color figures

a true professional s guide to c 6 professional c 6 and net core 1 0 provides complete coverage of the latest updates features and capabilities giving you everything you need for c get expert instruction on the latest changes to visual studio 2015 windows runtime ado net asp net windows store apps windows workflow foundation and more with clear explanations no nonsense pacing and valuable expert insight this incredibly useful guide serves as both tutorial and desk reference providing a professional level review of c architecture and its application in a number of areas you ll gain a solid background in managed code and net constructs within the context of the 2015 release so you can get acclimated quickly and get back to work the new updates can actively streamline your workflow with major changes including reimagined c refactoring support a new net app stack and the net compiler platform that makes c and visual basic compilers available as apis this book walks you through the changes with a comprehensive c review explore the new visual studio templates for asp net core 1 0 forms and mvc learn about the networking switch to

httpclient and asp net api s replacement of wcf data services work with the latest updates to the event log windows runtime 2 0 and windows 8 1 deployment and localization dig deep into the new net 5 0 gc behaviors and the migrations addition to ado net microsoft has stepped up both the cadence and magnitude of their software releases professional c 6 and net core 1 0 shows you everything you need to know about working with c in a real world context

build modern scalable and cloud ready single page applications using asp net core react typescript and azure key features explore the full potential and latest features of net core 3 0 typescript 3 and react learn how to manage data application design and packaging and secure your web apps discover best practices for using react and typescript to build a scalable frontend that interacts with rest apis book description microsoft s asp net core is a robust and high performing cross platform web api framework and facebook s react uses declarative javascript to drive a rich interactive user experience on the client side web together they can be used to build full stack apps with enhanced security and scalability at each layer this book will start by taking you through react and typescript components to build an intuitive single page application you ll understand how to design scalable rest apis that can integrate with a react based frontend you ll get to grips with the latest features popular patterns and tools available in the react ecosystem including function based components react router and redux the book shows how you can use typescript along with react to make the frontend robust and maintainable you ll then cover important net core features such as api controllers attribute routing and model binding to help you build a sturdy backend additionally you ll explore api security with asp net core identity and authorization policies and write reliable unit tests using both net core and react before you deploy your app to the azure cloud by the end of the book you ll have gained all the knowledge you need to enhance your c and javascript skills and build full stack production ready applications with asp net core and react what you will learn build restful apis with net core using api controllers create strongly typed interactive and function based react components using hooks build forms efficiently using reusable react components perform client side state management with redux and the react context api secure rest apis with asp net identity and authorization policies run a range of automated tests on the frontend and backend implement continuous integration ci and continuous delivery cd processes into azure using azure devops who this book is for if you re a web developer looking to build solid full stack web applications with net core and react this book is for you although this book does not assume any knowledge of react you re expected to have a basic understanding of net core

make the most of the asp net core platform to create robust high quality solutions using approaches adopted by leading companies key features create robust web based solutions optimized for continuous delivery using key cloud computing principles and practices explore advanced concepts and techniques to create resilient and secure applications adopt a cloud native mindset to build applications leveraging docker ci cd and more purchase of the print or kindle book includes a free pdf ebook book description build cutting edge web applications using asp net core 9 with this comprehensive guide from microsoft mvp albert tanure a seasoned net expert with over 20 years of experience as a cloud solutions architect albert brings unparalleled expertise in building modern web applications to asp net core 9 essentials to help you kickstart your journey on the right foot starting with the platform s fundamental concepts you ll work through practical exercises to develop web applications with

powerful ui frameworks deliver flexible and scalable solutions through an api approach and explore advanced topics such as customizing request flows and implementing robust security measures you ll get to grips with cloud native practices to prepare your applications for cloud environments whether you re a beginner or an experienced developer this book is your guide to building modern secure and adaptable web applications with asp net core by the end you ll have the skills to create professional web applications that are scalable resilient and secure what you will learn deliver ui solutions using client side server side and hybrid model approaches with razor pages mvc and blazor implement real time solutions and manage data streaming using signalr connect applications to a data persistence model using entity framework and dapper apply logging and monitoring strategies to maintain control over your applications understand how net aspire enhances your experience of building net cloud native apps who this book is for this book is for web developers and software engineers who want to build modern web applications using asp net core it s ideal for those working on both frontend and backend development if you re familiar with c or java and have basic experience with html and css you ll benefit the most whether you re a beginner exploring asp net core or an experienced developer looking to advance your skills this book is tailored for you

explore hidden behaviors and customization techniques to help you get the most out of asp net core for building web applications key featuressecond edition updated and enhanced to cover the latest net 6 features and changeslearn expert techniques to implement authentication and authorization for securing your web appsdiscover best practices for configuring asp net core from user interface design to hosting it on platformsbook 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 learnexplore various application configurations and providers in asp net core 6enable and work with caches to improve the performance of your applicationunderstand dependency injection in net and learn how to add third party di containersdiscover the concept of middleware and write your middleware for asp net core appscreate various api output formats in your api driven projectsget familiar with different hosting models for your asp net core appwho 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

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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 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

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