

Globalization And Localization In Asp Net Core Microsoft

Globalization And Localization In Asp Net Core Microsoft Globalization and Localization in ASPNET Core Bridging the Global Divide with Your Application Meta Learn how to build globally accessible ASPNET Core applications This comprehensive guide covers globalization and localization strategies best practices and practical tips for reaching a wider audience ASPNET Core Globalization Localization Culture Resources Internationalization i18n l10n NET Microsoft Multilingual Global Application Web Development Globalization and localization are critical aspects of building successful web applications in todays interconnected world No longer is it sufficient to cater only to a single geographic region or language If you aspire to build an application with global reach understanding and implementing robust globalization and localization g11nl10n strategies within your ASPNET Core application is paramount This blog post will provide a deep dive into these concepts offering practical guidance and best practices to ensure your application transcends geographical boundaries Understanding the Nuances Globalization vs Localization Before we delve into the specifics lets clarify the difference between globalization and localization Globalization g11n This refers to the design and development process of creating an application that can easily adapt to different cultures and languages without requiring significant code changes Its about building a flexible foundation Think of it as creating a house with adaptable rooms you can furnish them differently later Localization l10n This is the process of adapting your application to a specific culture or language This includes translating text adjusting datetime formats handling currency conversions and adapting to cultural conventions like image selection or color palettes Its about furnishing those adaptable rooms according to the needs of a specific region Implementing Globalization and Localization in ASPNET Core ASPNET Core provides builtin features to facilitate both globalization and localization Heres 2 a structured approach 1 Setting the Culture ASPNET Core uses the CultureInfo class to manage cultural settings You can determine the culture based on the users browser settings a query string parameter or a configuration setting The RequestLocalizationMiddleware is crucial here csharp in StartupConfigure var supportedCultures new new CultureInfoenUS new CultureInfooesES new CultureInfoofrFR appUseRequestLocalizationnew RequestLocalizationOptions DefaultRequestCulture new RequestCultureenUS SupportedCultures supportedCultures SupportedCultures supportedCultures This code snippet sets up support for English US Spanish Spain and French France The DefaultRequestCulture specifies the fallback culture 2 Resource Files Resource files resx are the heart of localization These files store translated text and other culturespecific data Create separate resx files for each supported culture eg Resourcesresx for English Resourcesesresx for Spanish etc Use the ResourceManager class to access these resources in your code csharp Accessing resources in your controller var resourceManager new ResourceManagerResourcesResources typeofYourControllerAssembly string greeting resourceManagerGetStringGreeting CultureInfoCurrentCulture 3 Data

Annotations For data validation and formatting leverage data annotations with cultureaware attributes

```
csharp 3 DisplayFormatDataFormatString 0c
ApplyFormatInEditMode true public decimal Price get set This example
formats the Price property according to the current cultures currency
format 4 Date and Time Formatting Use the CultureInfo object to format
dates and times consistently across cultures csharp DateTime now
DateTimeNow string formattedDate nowToStringD
CultureInfoCurrentCulture 5 Number Formatting Similarly format numbers
using CultureInfo csharp double number 123456 string formattedNumber
numberToStringN CultureInfoCurrentCulture
```

Best Practices for Global Application Development

- Use a consistent naming convention for your resource files
- Employ a professional translation service for accurate and culturally appropriate translations
- Test thoroughly in all supported cultures to identify and resolve any discrepancies
- Consider righttoleft RTL languages and adapt your layout accordingly
- Use Unicode throughout your application to support a wide range of characters
- Implement a culture selection mechanism thats userfriendly and intuitive

Advanced Techniques

Satellite assemblies For very large applications consider using satellite assemblies to organize your resource files

Thirdparty localization tools Several tools can automate parts of the localization process streamlining workflow and improving efficiency

Continuous localization Integrate localization into your CI/CD pipeline for faster iteration and quicker deployment of updates

Conclusion

4 Building globally accessible ASP.NET Core applications

requires a strategic approach that seamlessly blends globalization and localization By carefully considering cultural nuances and leveraging the powerful features provided by the .NET framework you can create applications that resonate with users worldwide fostering a truly global community around your software Remember a localized application is more than just translated text its a cultural experience tailored to the specific needs and expectations of your target audience

FAQs

- 1 How do I handle pluralization in different languages ASP.NET Core doesnt directly handle pluralization but you can use libraries like PluralizationService or external services for accurate pluralization rules based on the current culture
- 2 Can I use different resource files for different parts of my application Yes you can create separate resource files for different modules or sections of your application to manage resources more efficiently
- 3 What if I dont have resources for a specific culture The RequestLocalizationMiddleware allows you to define a default culture that will be used if a specific resource is not found
- 4 How can I test my localization effectively Use automated UI tests that simulate user interactions across different cultures to ensure all functionality works as intended
- 5 Are there any security considerations related to globalization and localization Ensure proper input validation and sanitization to prevent vulnerabilities especially when dealing with usersupplied text for translation or display Avoid directly embedding sensitive information within your resource files

Modern Web Development with ASP.NET Core 3Pro ASP.NET Core MVCASP.NET Core 8 and AngularASP.NET Core RecipesASP.NET Core 5 and AngularHands-On RESTful Web Services with ASP.NET Core 3ASP.NET Core 5 Secure Coding CookbookIntroduction to the Development of Web Applications Using ASP .Net (Core) MVCASP.NET Core 6 and AngularCustomizing ASP.NET Core 5.0Building RESTful Web Services with .NET CoreBuilding Web APIs with ASP.NET CoreCustomizing ASP.NET Core 6.0ASP.NET Core in 24 Hours, Sams Teach YourselfASP.NET Core 5 and ReactBuilding GraphQL API Services with ASP.NET CoreASP.NET Core in

Action, Third Edition Mastering ASP.NET Core 10 Pro Asp.net Core Mvc Web API Development with ASP.NET Core 8 Ricardo Peres ADAM FREEMAN Valerio De Sanctis John Ciliberti Valerio De Sanctis Samuele Resca Roman Canlas Razvan Alexandru Mezei Valerio De Sanctis Jürgen Gutsch Gaurav Aroraa Valerio De Sanctis Jürgen Gutsch Jeffrey T. Fritz Carl Rippon Rully Yulian MF Andrew Lock Mabrouk Mahdhi Adam Freeman Xiaodi Yan Modern Web Development with ASP.NET Core 3 Pro ASP.NET Core MVC ASP.NET Core 8 and Angular ASP.NET Core Recipes ASP.NET Core 5 and Angular Hands-On RESTful Web Services with ASP.NET Core 3 ASP.NET Core 5 Secure Coding Cookbook Introduction to the Development of Web Applications Using ASP .Net (Core) MVC ASP.NET Core 6 and Angular Customizing ASP.NET Core 5.0 Building RESTful Web Services with .NET Core Building Web APIs with ASP.NET Core Customizing ASP.NET Core 6.0 ASP.NET Core in 24 Hours, Sams Teach Yourself ASP.NET Core 5 and React Building GraphQL API Services with ASP.NET Core ASP.NET Core in Action, Third Edition Mastering ASP.NET Core 10 Pro Asp.net Core Mvc Web API Development with ASP.NET Core 8 Ricardo Peres ADAM FREEMAN Valerio De Sanctis John Ciliberti Valerio De Sanctis Samuele Resca Roman Canlas Razvan Alexandru Mezei Valerio De Sanctis Jürgen Gutsch Gaurav Aroraa Valerio De Sanctis Jürgen Gutsch Jeffrey T. Fritz Carl Rippon Rully Yulian MF Andrew Lock Mabrouk Mahdhi Adam Freeman Xiaodi Yan

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 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

visual studio 2017 updates for this book are now available follow the download source code link for this book on the apress website now in its 6th edition the best selling book on mvc is now updated for asp net core mvc it contains detailed explanations of the new core mvc functionality which enables developers to produce leaner cloud optimized and mobile ready applications for the net platform this book puts asp net core mvc into context and dives deep into the tools and techniques required to build modern cloud optimized extensible web applications all the new mvc features are described in detail and the author explains how best to apply them to both new and existing projects the asp net core mvc framework is the latest evolution of microsoft's asp net web platform built on a completely new foundation it represents a fundamental change to how microsoft constructs and deploys web frameworks and is free of the legacy of earlier technologies such as forms asp net core mvc provides a host agnostic framework and a high productivity programming model that promotes cleaner code architecture test driven development and powerful extensibility best selling author adam freeman has thoroughly revised this market leading book and explains how to get the most from asp net core mvc he starts with the nuts and bolts and shows you everything through to advanced features going in depth to give you the knowledge you need this book follows the same format and style as the popular previous editions but brings everything up to date for the new asp net core mvc release it presents a fully worked case study of a functioning asp net mvc application that readers can use as a template for their own projects what you will learn gain a solid architectural understanding of asp net core mvc explore the entire asp net mvc framework as a cohesive whole see how mvc and test driven development work in action learn what's new in asp net core mvc and how best to apply these new features to your own work see how to create restful web services and single page applications build on your existing knowledge of previous mvc releases to get up and running with the new programming model quickly and effectively who this book is for this book is for web developers with a basic knowledge of asp net and c# who want to incorporate the latest improvements and functionality in the new asp net core mvc framework

build robust scalable web applications using asp net core 8 angular and entity framework core purchase of the print or kindle book includes a free pdf ebook key features combine asp net core and angular to build highly versatile web applications 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 if you want to learn how to use asp net core with angular effectively this hands on guide is for you improve the way you create debug and deploy web applications while keeping up to date with the latest developments in net 8 and modern angular including net minimal apis and the new angular standalone api defaults you'll begin by setting up sql server 2022 and building a data model with entity framework core you'll progress to fetching and displaying data handling user input with angular reactive forms and implementing front end and back end validators for maximum effect after that you will perform

advanced debugging and explore unit testing features with xunit for net and jasmine and karma for angular you ll use identity api endpoints in asp net core and functional route guards in angular to add authentication and authorization to your apps finally you ll learn how to deploy to windows linux and azure by the end of this 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 explore the new angular and asp net core template with visual studio 2022 use modern interfaces and patterns such as the html5 pushstate api webhooks and ui data bindings add real time capabilities to angular apps with signalr and grpc implement authentication and authorization using jwt's perform dbms structured logging using providers such as serilog convert a standard web application to a progressive web application pwa deploy an angular app to azure static apps add graphql support to back end and front end using hotchocolate and apollo angular who this book is for this book is for developers who have some familiarity with asp net core and angular and want to learn how to use them effectively together

quickly find solutions to common web development problems content is presented in the popular problem solution format look up the problem that you want to solve read the solution apply the solution directly in your own code problem solved asp net core recipes is a practical guide for developers creating modern web applications cutting through the complexities of asp net jquery react and html5 to provide straightforward solutions to common web development problems using proven methods based on best practices the problem solution approach gets you in out and back to work quickly while deepening your understanding of the underlying platform and how to develop with it author john ciliberti guides you through the mvc framework and development tools presenting typical challenges along with code solutions and clear concise explanations to accelerate application development solve problems immediately by pasting in code from the recipes or put multiple recipe solutions together to overcome challenging development obstacles what you ll learn take advantage of mvc's streamlined syntax discover how to take full control over html develop a simple api for creating restful web services understand test driven development migrate a project from asp net web forms to core mvc including recipes for converting datagrids forms parts master pages and navigation controls use core mvc in combination with popular javascript libraries including jquery react bootstrap and more write unit tests for your mvc controllers views custom filters and html helpers utilize the latest features in visual studio 2017 to accelerate your core mvc projects identify performance bottlenecks in your mvc application who this book is for developers of all skill levels who are looking for a programming reference for asp net core mvc and would like to gain an understanding of the inner workings of the platform in addition parts of this book provide guidance to developers familiar with asp net forms who would like to update their skill set to include core mvc

build robust modern web applications using net 5 entity framework core and angular 11 key features updated with the latest features and additions in asp net core 5 and angular 11 design build and deploy a single page application or progressive app adopt a full stack approach to handle data management apis application design testing seo security and deployment book description learning full stack development calls for knowledge of both front end and back end web development asp net core 5 and angular fourth edition will enhance your ability to create debug and

deploy efficient web applications using asp net core and angular this revised edition includes coverage of the angular routing module expanded discussion on the angular cli and detailed instructions for deploying apps on azure as well as both windows and linux taking care to explain and challenge design choices made throughout the text valerio teaches you how to build 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 5 and jasmine as well as karma for angular after adding authentication and authorization to your apps you will explore progressive web applications pwabs learning about their technical requirements testing and converting swabs to pwabs by the end of this 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 learnimplement a web api interface with asp net core and consume it with angular using rxjs observablesset up an sql database server using a local instance or a cloud data storeperform c and typescript debugging using visual studio 2019create tdd and bdd unit tests using xunit jasmine and karmaperform dbms structured logging using third party providers such as serilogdeploy web apps to windows and linux web servers or azure app service using iis kestrel and nginxwho 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

get up to speed with the latest features of c 8 asp net core 3 and net core 3 1 lts to create robust and maintainable web services key featuresapply design patterns and techniques to achieve a reactive scalable web servicedocument your web services using the openapi standard and test them using postmanexplore mechanisms to implement a secure web service using client side ssl and token authenticationbook description in recent times web services have evolved to play a prominent role in web development applications are now designed to be compatible with any device and platform and web services help us keep their logic and ui separate given its simplicity and effectiveness in creating web services the restful approach has gained popularity and this book will help you build restful web services using asp net core this rest book begins by introducing you to the basics of the rest philosophy where you ll study the different stages of designing and implementing enterprise grade restful web services you ll also gain a thorough understanding of asp net core s middleware approach and learn how to customize it the book will later guide you through improving api resilience securing your service and applying different design patterns and techniques to achieve a scalable web service in addition to this you ll learn advanced techniques for caching monitoring and logging along with implementing unit and integration testing strategies in later chapters you will deploy your rest web services on azure and document apis using swagger and external tools such as postman by the end of this book you will have learned how to design restful web services confidently using asp net core with a focus on code testability and maintainability what you will learngain a comprehensive working knowledge of asp net coreintegrate third party tools and frameworks to build maintainable and efficient servicesimplement patterns using dependency

injection to reduce boilerplate code and improve flexibilityuse asp net core s out of the box tools to test your applicationsuse docker to run your asp net core web service in an isolated and self contained environmentsecure your information using https and token based authenticationintegrate multiple web services using resiliency patterns and messaging techniqueswho this book is for this book is for anyone who wants to learn how to build restful web services with the asp net core framework to improve the scalability and performance of their applications basic knowledge of c and net core will help you make the best use of the code samples included in the book

learn how to secure your asp net core web app through robust and secure code key featuresdiscover the different types of security weaknesses in asp net core web applications and learn how to fix themunderstand what code makes an asp net core web app unsafebuild your secure coding knowledge by following straightforward recipesbook description asp net core developers are often presented with security test results showing the vulnerabilities found in their web apps while the report may provide some high level fix suggestions it does not specify the exact steps that you need to take to resolve or fix weaknesses discovered by these tests in asp net secure coding cookbook you ll start by learning the fundamental concepts of secure coding and then gradually progress to identifying common web app vulnerabilities in code as you progress you ll cover recipes for fixing security misconfigurations in asp net core web apps the book further demonstrates how you can resolve different types of cross site scripting a dedicated section also takes you through fixing miscellaneous vulnerabilities that are no longer in the owasp top 10 list this book features a recipe style format with each recipe containing sample insecure code that presents the problem and corresponding solutions to eliminate the security bug you ll be able to follow along with each step of the exercise and use the accompanying sample asp net core solution to practice writing secure code by the end of this book you ll be able to identify insecure code causing different security flaws in asp net core web apps and you ll have gained hands on experience in removing vulnerabilities and security defects from your code what you will learnunderstand techniques for squashing an asp net core web app security bugdiscover different types of injection attacks and understand how you can prevent this vulnerability from being exploitedfix security issues in code relating to broken authentication and authorizationeliminate the risks of sensitive data exposure by getting up to speed with numerous protection techniquesprevent security misconfiguration by enabling asp net core web application security featuresexplore other asp net web application vulnerabilities and secure coding best practiceswho this book is for this asp net core book is for intermediate level asp net core web developers and software engineers who use the framework to develop web applications and are looking to focus on their security using coding best practices the book is also for application security engineers analysts and specialists who want to know more about securing asp net core using code and understand how to resolve issues identified by the security tests they perform daily

this book introduces a simplified approach to web application development using the open source asp net core mvc framework readers will learn to implement web applications using the following languages and frameworks html javascript css bootstrap c asp net and entity framework core in addition this book addresses how to build a web application to create user accounts store data in a database manipulate data and how to allow

controlled access to certain parts of the application functionality the author also covers both client side and server side development and the use of an object relational mapper to work with persistent data using a database topics include models views controllers routing entity framework core identity layouts dependency injection and services model binder among others this book introduces the development of web applications using the open source asp net core mvc framework implements web applications including html javascript css bootstrap c asp net and entity framework core features client side development server side development and object relational mapper software

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 entity type configuration 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

a guide to discovering the hidden behaviors of asp net core that can be customized to optimize your net 5 applications key features customize the default behavior of asp net core to get the most out of the framework enhance the app configuration change the default dependency injection and build your own tag helpers discover best practices for configuring asp net core from user interface design to hosting it on

platformsbook description asp net core is the most powerful microsoft web framework although it s full of rich features sometimes the default configurations can be a bottleneck and need to be customized to suit the nature and scale of your app if you re an intermediate level net developer who wants to extend net core to multiple use cases it s important to customize these features so that the framework works for you effectively customizing asp net core 5 0 covers core features that can be customized for developing optimized apps the customization techniques are also updated to work with the latest net 5 framework 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 application development book you ll have the skills you need to 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 5understand dependency injection in net and learn how to add third party di containersdiscover the concept of middleware and write your own middleware for asp net core appscreeate various api output formats in your api driven projectsget familiar with different hosting models for your asp net core appdevelop custom routing endpoints and add third party endpointsconfigure webhostbuilder effectively for your web applicationswho this book is for this net 5 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

building complete e commerce shopping cart application key features follow best practices and explore techniques such as clustering and caching to achieve a reactive scalable web service leverage the net framework to quickly implement restful endpoints learn to implement a client library for a restful web service using asp net core book description rest is an architectural style that tackles the challenges of building scalable web services in today s connected world apis have taken a central role on the web apis provide the fabric through which systems interact and rest has become synonymous with apis the depth breadth and ease of use of asp net core makes it a breeze for developers to work with for building robust web apis this book takes you through the design of restful web services and leverages the asp net core framework to implement these services this book begins by introducing you to the basics of the philosophy behind rest you ll go through the steps of designing and implementing an enterprise grade restful web service this book takes a practical approach that you can apply to your own circumstances this book brings forth the power of the latest net core release working with mvc later you will learn about the use of the framework to explore approaches to tackle resilience security and scalability concerns you will explore the steps to improve the performance of your applications you ll also learn techniques to deal with security in web apis and discover how to implement unit and integration test strategies by the end of the book you will have a complete understanding of building a client for restful web services along with some scaling techniques what you will learn add basic authentication to your restful api create a carts controller and orders controller to

manage and process orders intercept http requests and responses by building your own middleware test service calls using postman and advanced rest client secure your data application using annotations who this book is for this book is intended for those who want to learn to build restful web services with the latest net core framework to make best use of the code samples included in the book you should have a basic knowledge of c and net core

building apis with asp net core is a practical beginner s guide to creating your first web apis using asp net core in it you ll develop an api that feeds web based services including websites and mobile apps for a board games application the book is cleverly structured to mirror a real world development project with each chapter introducing a new feature request you ll build your api with an ecosystem of asp net core tools that help simplify everything from setting up your data model to generating documentation

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

in just 24 sessions of one hour or less sams teach yourself asp net core in 24 hours will help you build professional quality cloud based web connected solutions with asp net core this book s straightforward step by

step approach guides you from the basics to advanced techniques using practical examples to help you make the most of microsoft's radically revamped asp net core framework asp net program manager jeffrey t fritz guides you from jumpstarting development with templates to implementing cutting edge security and containerization every lesson builds on what you've already learned giving you a rock solid foundation for real world success step by step instructions carefully walk you through the most common asp net core tasks and techniques practical hands on examples show you how to apply what you learn notes and tips point out shortcuts solutions and problems to avoid learn how to set up your work environment on windows or non windows operating systems develop solutions more quickly by starting with project templates configure asp net core services and applications access data with entity framework core build modern architectures controllers and views with the new version of mvc scaffold user interfaces and incorporate reusable ui components read and write data using web api end points manage client side packages with npm and bower integrate angular with asp net core authenticate users and protect your website with asp net core authorization deploy asp net core solutions into production work with docker containers in the asp net core environment

build fully functional cloud ready and professional web applications using the latest features in the net 5 framework and react js with microsoft azure key features explore the new features of net 5 with this updated edition of asp net core 5 and react discover strategies for adopting a full stack development approach clean architecture techniques and development best practices learn how to manage data design and package applications and secure your web apps book description microsoft's net framework is a robust server side framework now even more powerful thanks to the recent unification of the microsoft ecosystem with the net 5 framework this updated second edition addresses these changes in the net framework and the latest release of react the book starts by taking you through react and typescript components for building an intuitive single page application and then shows you how to design scalable rest apis that can integrate with a react based frontend next 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 as you progress through the chapters you'll learn how to use react with typescript to make the frontend robust and maintainable and cover key asp net 5 features such as api controllers attribute routing and model binding to build a sturdy backend in addition to this you'll explore api security with asp net 5 identity and authorization policies and write reliable unit tests using both net and react before deploying your app on azure by the end of this book you'll have gained the knowledge you need to enhance your c# and javascript skills and build full stack production ready applications with asp net 5 and react what you will learn build restful apis with net 5 using api controllers secure rest apis with identity and authorization policies create strongly typed interactive and function based react components using hooks understand how to style react components using emotion js perform client side state management with redux run a range of automated tests on the frontend and backend implement continuous integration and continuous delivery ci/cd processes in azure using azure devops who this book is for if you're a web developer looking to get up to speed with full stack web application development with net core and react this book is for you although the book does not assume any knowledge of react a basic understanding of net core will help you to get to grips with the concepts

covered

this book discusses the development of api services using graphql on top of the asp net core framework graphql is a language for querying or manipulating resources or data against data sources such as databases in addition graphql also provides a runtime for processing queries and other graphql objects the language and runtime were originally built by facebook in 2012 to be used internally in 2015 graphql began to be published in open source to the public graphql provides another alternative for developing api services besides those based on rest several leading companies including facebook itself already use graphql such as github pinterest airbnb paypal twitter and others there are several things that distinguish graphql from rest services including graphql provides data according to your needs nothing less and nothing more output data properties or columns can be determined dynamically in contrast to rest services that have determined data from any column to be displayed graphql provides one endpoint for all resources or all data provided in contrast to rest api that provides resources or data through multiple endpoints or multiple controllers the data response displayed from graphql will be structurally the same as the data structure requested by the client graphql can provide multiple resources or data in one request rest services should provide it with multiple urls the topics described in this book start from the explanation of graphql asp net core architecture installation of the necessary libraries creation of asp net core web in visual studio use of ef core for database access sql server postgresql use of queries and mutations use of tools for graphql access use of logging and data loaders real time services with subscription implementation of asp net core identity use of jwt authentication deployment and many more the discussion in this book is carried out in stages so that it is hoped that after studying it readers will have sufficient skills or abilities to build graphql based services with asp net core according to the needs in the field hopefully this book can be another alternative as a learning resource for exercises tutorials or a reference for those who want to learn the backend programming of graphql api services with asp net core that is connected to sql server and postgresql databases

asp net core in action 3rd edition by microsoft mvp andrew lock is a fully updated edition ideal for intermediate c developers and teaches you how to use your c and net skills to build amazing cross platform web applications even if you have never worked with asp net you will soon start creating productive cross platform web apps

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