

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. It's about furnishing those adaptable rooms according to the needs of a specific region. Implementing Globalization and Localization in ASP.NET Core, ASP.NET Core provides built-in features to facilitate both globalization and localization. Here's a structured approach:

1. Setting the Culture: ASP.NET Core uses the `CultureInfo` class to manage cultural settings. You can determine the culture based on the user's browser settings, a query string parameter, or a configuration setting. The `RequestLocalizationMiddleware` is crucial here. csharp in `Startup.Configure` var `supportedCultures = new CultureInfo[] { new CultureInfo("en-US"), new CultureInfo("es-ES"), new CultureInfo("fr-FR") };` app.UseRequestLocalization(new RequestLocalizationOptions { DefaultRequestCulture = new RequestCulture("en-US"), SupportedCultures = supportedCultures, SupportedUICultures = 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 culture-specific data. Create separate resx files for each supported culture, e.g., `Resources.resx` for English, `Resources.es.resx` for Spanish, etc. Use the `ResourceManager` class to access these resources in your code. csharp Accessing resources in your controller: var `resourceManager = new ResourceManager("Resources", typeof(YourController).Assembly);` string `greeting = resourceManager.GetString("Greeting", CultureInfo.CurrentCulture);`
3. Data Annotations: For data validation and formatting, leverage data annotations with culture-aware attributes. csharp `[DisplayFormat(DataFormatString = "0c", ApplyFormatInEditMode = true)]` public decimal Price { get; set; }
- This example formats the `Price` property according to the current culture's currency format.
4. Date and Time Formatting: Use the `CultureInfo` object to format dates and times consistently across cultures. csharp `DateTime now = DateTime.Now; string formattedDate = now.ToString("D", CultureInfo.CurrentCulture);`
5. Number Formatting: Similarly, format numbers using `CultureInfo`. csharp `double number = 123456; string formattedNumber = number.ToString("N");`

CultureInfo CurrentCulture 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 that's 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 CICD pipeline for faster iteration and quicker deployment of updates Conclusion 4 Building globally accessible ASPNET 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 ASPNET Core doesn't 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 don't 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

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publisher's note microsoft will stop supporting net 6 from november 2024 the newer 8th edition of the book is available that covers net 8 end of life november 2026 with c 12 and ef core 8 purchase of the print or kindle book includes a free pdf ebook key features explore the newest additions to c 10 the net 6 class library and entity framework core 6 create professional websites and services with asp net core 6 and blazor build cross platform apps for windows macos linux ios and android book descriptionextensively revised to accommodate all the latest features that come with c 10 and net 6 this latest edition of our comprehensive guide will get you coding in c with confidence you'll learn object oriented programming writing testing and debugging functions implementing interfaces and inheriting classes the book covers the net apis for performing tasks like managing and querying data monitoring and improving performance and working with the filesystem async streams and serialization you'll build and deploy cross platform apps such as websites and services using asp net core instead of distracting you with unnecessary application code the first twelve chapters will teach you about c language constructs and many of the net libraries through simple console applications in later chapters having mastered the basics you'll then build practical applications and services using asp net core the model view controller mvc pattern and blazor what you will learn build rich web experiences using blazor razor pages the model view controller mvc pattern and other features of asp net core build your own types with object oriented programming write test and debug functions query and manipulate data using linq integrate and update databases in your

apps using entity framework core microsoft sql server and sqlite build and consume powerful services using the latest technologies including grpc and graphql build cross platform apps using xaml who this book is for designed for both beginners and c and net programmers who have worked with c in the past and want to catch up with the changes made in the past few years this book doesn't need you to have any c or net experience however you should have a general understanding of programming before you jump in

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

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and deploy cross device and cross platform in this section we'll cover universal windows platform uwp apps web applications and web services lastly we'll help you build a complete application that can be hosted on all of today's most popular platforms including linux and docker by the end of the book you'll be armed with all the knowledge you need to build modern cross platform applications using c and net core style and approach this book takes a step by step approach and is filled with exciting projects and fascinating theory it uses three high impact sections to equip you with all the tools you'll need to build modern cross platform applications using c and net core

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

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build fully featured apis with asp net core this all practical guide is written like a real development project taking you hands on with modern apis utilizing rest and graphql standards in building apis with asp net core you will learn how to set up your environment with vs 2022 node git and more create a asp net core project from scratch integrate with sql server use entity framework core to set up a data model create back end controllers design an api to serve data write api documentation using swagger and swashbuckle consume an api using typical web client side frameworks handle requests and routes using controllers and minimal api release and deploy your api in production on cloud based hosting services such as ms azure 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 about the technology apis are the front door to an application providing controlled access to its data and features asp net core microsoft's web framework simplifies and accelerates api creation with powerful developer friendly features including an innovative no compile coding experience it is reliable fast free open source and backed by microsoft's legendary support about the book building apis with asp net core teaches you how to write safe maintainable and performant rest apis it's full of

best practices for modern and classic api styles including rest and graphql you'll love the groundbreaking minimal api model that helps you build pro quality apis with just a few lines of code each chapter contains realistic user stories backlog items and development tasks what's inside create an asp net core project from scratch set up a data model with entity framework core create backend controllers design an api to serve data about the reader for developers with some experience using the net framework about the author valerio de sanctis has more than 20 years of experience in web development and project management using asp net php and java table of contents part 1 getting started 1 apis at a glance 2 our first web api project 3 restful principles and guidelines part 2 basic concepts 4 working with data 5 crud operations 6 data validation and error handling part 3 advanced concepts 7 application logging 8 caching techniques 9 authentication and authorization 10 beyond rest part 4 toward production 11 api documentation 12 release and deployment

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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

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 platforms book 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 appscreate 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

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

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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 s

serving as both a fast paced tutorial and a reference this guide meets the needs of two primary audiences programmers who want a quick introduction to using the bcl and those who want a reference in book form

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 specifc 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

build your expertise as you move beyond the basics and delve into the core topics of programming with asp net 2 0 useful to both experienced developers and those developing new skills this ultimate reference is packed with expert guidance hands on programming instruction and practical examples to help you advance your mastery of developing applications for the discover how to author rich visually consistent pages and manage layout with themes and master pages create personalized pages that persist user preferences retrieve modify and manage data with microsoft ado net configure the http pipeline to serve asp net 2 0 pages control program flow by tracing and handling exceptions design caching layers and learn state management techniques to optimize application performance manage users with membership control registration and authentication capabilities build real world data access layers using common design patterns use custom collections with data source controls learn the internals of grid controls plus get code samples on the web

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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

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