

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

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 CultureInfo(enUS) new CultureInfo(esES) new CultureInfo(frFR)
app.UseRequestLocalization(new RequestLocalizationOptions
    DefaultRequestCulture new RequestCulture(enUS)
    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 culturespecific data Create separate `resx` files for each supported culture eg `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 typeofYourControllerAssembly)
string greeting resourceManager.GetString(Greeting)
CultureInfo CurrentCulture
```

3 Data Annotations

For data validation and formatting leverage data annotations with cultureaware attributes

```
csharp
3
DisplayFormat(DataFormatString = "{0:c}", 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 = 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);
```

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 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 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

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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 endpoints 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

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

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 Microsoft 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

summary net core in action shows net developers how to build professional software applications with net core learn how to convert existing net code to work on multiple platforms or how to start new projects with knowledge of the tools and capabilities of net core purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology net core is an open source framework that lets you write and run net applications on linux and mac without giving up on windows built for everything from lightweight web apps to industrial strength distributed systems it s perfect for deploying net servers to any cloud platform including aws and gcp about the book net core in action introduces you to cross platform development with net core this hands on guide concentrates on new core features as you walk through familiar tasks like testing logging data access and networking as you go you ll explore modern architectures like microservices and cloud data storage along with practical matters like performance profi ling localization and signing

assemblies what's inside choosing the right tools testing profiling and debugging interacting with web services converting existing projects to net core creating and using nuget packages about the reader all examples are in c# about the author dustin metzgar is a seasoned developer and architect involved in numerous net core projects dustin works for microsoft

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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 learnbuild restful apis with net 5 using api controllerssecure rest apis with identity and authorization policiescreate strongly typed interactive and function based react components using hooksunderstand how to style react components using emotion jsperform client side state management with reduxrun a range of automated tests on the frontend and backendimplement continuous integration and continuous delivery ci cd processes in azure using azure devopswho 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 featurescustomize the default behavior of asp net core to get the most out of the frameworkenhance the app configuration change the default dependency injection and build your own tag helpersdiscover 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 learn explore various application configurations and providers in asp net core 5 understand dependency injection in net and learn how to add third party di containers discover the concept of middleware and write your own middleware for asp net core apps create various api output formats in your api driven projects get familiar with different hosting models for your asp net core app develop custom routing endpoints and add third party endpoints configure webhostbuilder effectively for your web applications who 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

major roadblock but that's not the case now net core 2.0 by example will take you on an exciting journey to building better software this book provides fresh and relevant content to net core 2.0 in a succinct format that's enjoyable to read it also delivers concepts along with the implications design decisions and potential pitfalls you might face when targeting linux and windows systems in a logical and simple way with the net framework at its center the book comprises of five varied projects a multiplayer tic tac toe game a real time chat application let's chat a chatbot a microservice based buying selling application and a movie booking application you will start each chapter with a high level overview of the content followed by the above example applications described in detail by the end of each chapter you will not only be proficient with the concepts but you'll also have created a tangible component in the application by the end of the book you will have built five solid projects using all the tools and support provided by the net core 2.0 framework what you will learn build cross platform applications with asp net core 2.0 and its tools integrate host and deploy web apps with the cloud microsoft azure leverage the ncurses native library to extend console capabilities in net core on linux and interop with native code in net core on linux and learn how to interop with existing native code reuse existing net framework and mono assemblies from net core 2.0 applications develop real time web applications using asp net core learn the differences between soa and microservices and get started with microservice development using asp net core 2.0 walk through functional programming with f# and net core from scratch who this book is for if you are a developer or architect and want to learn how to build cross platform solutions using microsoft net core this book is for you it is assumed that you have some knowledge of the net framework oop and c# or a similar programming language

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

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learn how web applications can be built efficiently using asp net core 2 0 and related frameworks about this book get to grips with the new features and apis introduced in asp net core 2 0 leverage the mvc framework and entity framework core 2 to build efficient applications learn to deploy your web applications in new environments such as the cloud and docker who this book is for this book is for developers who would like to build modern web applications with asp net core 2 0 no prior knowledge of asp net or net core is required however basic programming knowledge is assumed additionally previous visual studio experience will be helpful but is not required since detailed instructions will guide through the samples of the book this book can also help people who work in infrastructure engineering and operations to monitor and diagnose problems during the runtime of asp net core 2 0 web applications what you will learn set up your development environment using visual studio 2017 and visual studio code create a fully automated continuous delivery pipeline using visual studio team services get to know the basic and advanced concepts of asp net core 2 0 with detailed examples build an mvc web application and use entity framework core 2 to access data add apis to your web applications using rpc rest and hateoas authenticate and authorize users with built in asp net core 2 0 features use azure amazon services and docker to deploy and monitor your applications in detail the ability to develop web applications that are highly efficient but also easy to maintain has become imperative to many businesses asp net core 2 0 is an open source framework from microsoft which makes it easy to build cross platform web applications that are modern and dynamic this book will take you through all of the essential concepts in asp net core 2 0 so you can learn how to build powerful web applications the book starts with a brief introduction to the asp net core framework and the improvements made in the latest release asp net core 2 0 you will then build test and debug your first web application very

quickly once you understand the basic structure of asp net core 2 0 web applications you ll dive deeper into more complex concepts and scenarios moving on we ll explain how to take advantage of widely used frameworks such as model view controller and entity framework core 2 and you ll learn how to secure your applications finally we ll 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 specific changes and provides general mvc development recipes it explores setting up net core visual studio 2017 node js modules and nuget next it shows you how to work with inversion of control data pattern and caching we explore everyday asp net core mvc 2 0 patterns and go beyond it into troubleshooting finally we lead you through migrating hosting and deploying your code by the end of the book you ll not only have explored every aspect of asp net core mvc 2 0 you ll also have a reference you can keep coming back to whenever you need to get the job done what you will learn build asp net core 2 0 applications using http services with webapi learn to unit test load test and

perform test applications using client side and server side frameworks debug monitor and troubleshoot asp net core 2 0 applications using popular tools reuse components with nuget and create modular components with middleware create applications using client side technologies such as html5 javascript jquery and angular build responsive and dynamic uis for your mvc apps using bootstrap leverage tools like karma jasmine qunit xunit selenium microsoft fakes and visual studio 2017 enterprise who this book is for this book is written for the asp net developer who wants to deliver professional standard software quickly and efficiently it s filled with hands on recipes practical advice and guidance to help developers with every aspect of the asp net development cycle whether you ve just started out or are a seasoned pro the asp net core 2 0 cookbook is written for you

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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