



Community Experience Distilled

ASP.NET Web API Security Essentials

Take the security of your ASP.NET Web API to the next level
using some of the most amazing security techniques around

Rajesh Gunasundaram

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Asp Net Web Api Security Essentials

John Ciliberti



Asp Net Web Api Security Essentials:

ASP.NET Web API Security Essentials Rajesh Gunasundaram, 2015-11-27 Take the security of your ASP NET Web API to the next level using some of the most amazing security techniques around About This Book This book has been completely updated for ASP NET Web API 2.0 including the new features of ASP NET Web API such as Cross Origin Resource Sharing CORS and OWIN self hosting Learn various techniques to secure ASP NET Web API including basic authentication using authentication filters forms Windows Authentication external authentication services and integrating ASP NET's Identity system An easy to follow guide to enable SSL prevent Cross Site Request Forgery CSRF attacks and enable CORS in ASP NET Web API Who This Book Is For This book is intended for anyone who has previous knowledge of developing ASP NET Web API applications Good working knowledge and experience with C# and .NET Framework are prerequisites for this book What You Will Learn Secure your web API by enabling Secured Socket Layer SSL Manage your application's user accounts by integrating ASP NET's Identity system Ensure the security of your web API by implementing basic authentication Implement forms and Windows authentication to secure your web API Use external authentication such as Facebook and Twitter to authenticate a request to a web API Protect your web API from CSRF attacks Enable CORS in your web API to explicitly allow some cross origin requests while rejecting others Fortify your web API using OAuth2 In Detail This book incorporates the new features of ASP NET Web API 2 that will help you to secure an ASP NET Web API and make a well informed decision when choosing the right security mechanism for your security requirements We start by showing you how to set up a browser client to utilize ASP NET Web API services We then cover ASP NET Web API's security architecture authentication and authorization to help you secure a web API from unauthorized users Next you will learn how to use SSL with ASP NET Web API including using SSL client certificates and integrate the ASP NET Identity system with ASP NET Web API We'll show you how to secure a web API using OAuth2 to authenticate against a membership database using OWIN middleware You will be able to use local logins to send authenticated requests using OAuth2 We also explain how to secure a web API using forms authentication and how users can log in with their Windows credentials using integrated Windows authentication You will come to understand the need for external authentication services to enable OAuth OpenID and social media authentication We'll then help you implement anti Cross Site Request Forgery CSRF measures in ASP NET Web API Finally you will discover how to enable Cross Origin Resource Sharing CORS in your web API application Style and approach Each chapter is dedicated to a specific security technique in a task based and easy to follow way Most of the chapters are accompanied with source code that demonstrates the step by step guidelines of implementing the technique and includes an explanation of how each technique works

CORS Essentials Rajesh Gunasundaram, Randall Goya, 2017-05-30 Share code and assets across domains in Web applications with CORS About This Book A step by step guide but at a high level fast pace Not all steps are covered as a basic knowledge is assumed Provides a basic overview of the concepts but the focus is on

providing the practical skills required to develop applications Focuses on providing practical examples Who This Book Is For Web developers have been limited by the Same Origin Policy and often wish they could spread their application across different domains You know JavaScript and AJAX and have run up against the Same Domain Policy which is limiting your applications What You Will Learn Why you need CORS Bending the Same Origin Policy and basic CORS implementation headers and XMLHttpRequest Creating proxies for CORS Sometimes the header is not enough Security vulnerabilities and how to secure your CORS application CORS implementations in Content Management systems Learn about CORS in Windows applications Take CORS on the Cloud Apply CORS in Node js Best practices for CORS In Detail This book explains how to use CORS including specific implementations for platforms such as Drupal WordPress IIS Server ASP NET JBoss Windows Azure and Salesforce as well as how to use CORS in the Cloud on Amazon AWS YouTube Mulesoft and others It examines limitations security risks and alternatives to CORS It explores the W3C Specification and major developer documentation sources about CORS It attempts to predict what kinds of extension to the CORS specification or completely new techniques will come in the future to address the limitations of CORS Web developers will learn how to share code and assets across domains with CORS They will learn a variety of techniques that are rather similar in their method and syntax The book is organized by similar types of framework and application so it can be used as a reference Developers will learn about special cases such as when a proxy is necessary And they will learn about some alternative techniques that achieve similar goals and when they may be preferable to using CORS Style and approach A step by step guide filled with real world applications

Learning ASP.NET Core MVC Programming Mugilan T. S. Ragupathi, 2016-11-16 Learn the fundamentals of ASP NET MVC and build real world web applications using ASP NET Core MVC About This Book Get a first principles coverage of ASP NET MVC and the latest release Core This book is uniquely designed for developers who are looking to transition their skills into the NET development field The standalone chapter structure leaves you free to explore ASP NET MVC to immediately solve your pain points Who This Book Is For This book is for developers who want to learn to build web applications using ASP NET Core developers who want to make a career building web applications using Microsoft technology and developers who are working in Ruby on Rails or other web frameworks and want to learn ASP NET Core MVC No knowledge of the ASP NET platform or the NET platform is required Even though you do not need to have experience in C an understanding of the basic constructs loops conditionals classes and objects of any modern programming language would be helpful What You Will Learn Get to know the concepts of ASP NET MVC and build a new static web page using HTML CSS and jQuery Set up a development environment and run a sample application using the template Create a Controller with action methods Build a view using several features of the Razor View engine Construct a Model for ASP NET Core MVC application Devise a custom mechanism to provide maximum flexibility to your application through routing Validate the user input on the client side using jQuery Enhance your applications using Bootstrap Explore new configuration and deployment

scenarios step by step guide to deploying ASP NET Core web application in Linux In Detail ASP NET Core MVC helps you build robust web applications using the Model View Controller design This guide will help you in building applications which can be deployed on non windows platforms such as Linux In today s age it is crucial that you possess the ability to separate the programming and business logic and this is exactly what ASP NET Core MVC application will help you achieve This version comes with a number of improvements that enable fast TDD friendly development to create sophisticated applications You would also learn the fundamentals of Entity framework and on how to use the same in ASP NET Core web applications The book presents the fundamentals and philosophies of ASP NET Core Starting with an overview of the MVC pattern we quickly dive into the aspects that you need to know to get started with ASP NET You will learn about the core architecture of model view and control Integrating your application with Bootstrap validating user input interacting with databases and deploying your application are some of the things that you will be able to execute with this fast paced guide The end of the book will test your knowledge as you build a fully working sample application using the skills you ve learned throughout the book Style and approach This book takes a first principles approach to help you understand and implement ASP NET MVC solutions It is focused primarily on giving you practical skills rather than the old conventional theoretical teaching

Learning Angular for .NET Developers Rajesh Gunasundaram,2017-06-30 Build efficient web apps and deliver great results by integrating Angular and the NET framework About This Book Become a more productive developer and learn to use frameworks that implement good development practices Achieve advanced autocompletion navigation and refactoring in Angular using Typescript Follow a gradual introduction to the concepts with a lot of examples and explore the evolution of a production ready application Who This Book Is For If you are a NET developer who now wants to efficiently build single page applications using the new features that Angular 4 has to offer then this book is for you Familiarity of HTML CSS and JavaScript is assumed to get the most from this book What You Will Learn Create a standalone Angular application to prototype user interfaces Validate complex forms with Angular version 4 and use Bootstrap to style them Build RESTful web services that work well with single page applications Use Gulp and Bower in Visual Studio to run tasks and manage JavaScript packages Implement automatic validation for web service requests to reduce your boilerplate code Use web services with Angular version 4 to offload and secure your application logic Test your Angular version 4 and web service code to improve the quality of your software deliverables In Detail Are you are looking for a better more efficient and more powerful way of building front end web applications Well look no further you have come to the right place This book comprehensively integrates Angular version 4 into your tool belt then runs you through all the new options you now have on hand for your web apps without bogging you down The frameworks tools and libraries mentioned here will make your work productive and minimize the friction usually associated with building server side web applications Starting off with building blocks of Angular version 4 we gradually move into integrating TypeScript and ES6 You will get confident in building single

page applications and using Angular for prototyping components You will then move on to building web services and full stack web application using ASP NET WebAPI Finally you will learn the development process focused on rapid delivery and testability for all application layers Style and approach This book covers everything there is to know about getting well acquainted with Angular 4 and NET without bogging you down Everything is neatly laid out under clear headings for quick consultation offering you the information required to understand a concept immediately with short relevant examples of each feature

Expert Angular Mathieu Nayrolles,Rajesh Gunasundaram,Sridhar Rao,2017-07-31 Learn everything you need to build highly scalable robust web applications using Angular release 4 About This Book Apply best practices and design patterns to achieve higher scalability in your Angular applications Understand the latest features of Angular and create your own components Get acquainted with powerful advanced techniques in Angular to build professional web applications Who This Book Is For This book is for JavaScript developers with some prior exposure to Angular at least through basic examples We assume that you ve got working knowledge of HTML CSS and JavaScript What You Will Learn Implement asynchronous programming using Angular Beautify your application with the UI components built to the material design specification Secure your web application from unauthorized users Create complex forms taking full advantage of 2 way data binding Test your Angular applications using the Jasmine and Protractor frameworks for better efficiency Learn how to integrate Angular with Bootstrap to create compelling web applications Use Angular built in classes to apply animation in your app In Detail Got some experience of Angular under your belt Want to learn everything about using advanced features for developing websites This book is everything you need for the deep understanding of Angular that will set you apart from the developer crowd Angular has introduced a new way to build applications Creating complex and rich web applications with a lighter resource footprint has never been easier or faster Angular is now at release 4 with significant changes through previous versions This book has been written and tested for Angular release 4 Angular is a mature technology and you ll likely have applications built with earlier versions This book starts by showing you best practices and approaches to migrating your existing Angular applications so that you can be immediately up to date You will take an in depth look at components and see how to control the user journey in your applications by implementing routing and navigation You will learn how to work with asynchronous programming by using Observables To easily build applications that look great you will learn all about template syntax and how to beautify applications with Material Design Mastering forms and data binding will further speed up your application development time Learning about managing services and animations will help you to progressively enhance your applications Next you ll use native directives to integrate Bootstrap with Angular You will see the best ways to test your application with the leading options such as Jasmine and Protractor At the end of the book you ll learn how to apply design patterns in Angular and see the benefits they will bring to your development Style and approach This book provides comprehensive coverage of all aspects of development with Angular You will learn about all the most powerful Angular

concepts with examples and best practices This book is everything you need for the deep understanding of Angular that will set you apart from the developer crowd **Practical ASP.NET Web API** Badrinarayanan Lakshmiraghavan,2013-09-20

Practical ASP NET Web API provides you with a hands on and code focused demonstration of the ASP NET Web API in action From the very beginning you ll be writing working code in order to see best practices and concepts in action As the book progresses the concepts and code will become more sophisticated Beginning with an overview of the web service model in general and Web API in particular you ll progress quickly to a detailed exploration of the request binding and response formatting that lie at the heart of Web API You ll investigate various scenarios and see how they can be manipulated to achieve the results you need Later in the book more sophisticated themes will be introduced that will set your applications apart from the crowd You ll learn how you can validate the request messages on arrival how you can create loosely coupled controllers extend the pipeline processing to compartmentalize your code for security and unit testing before being put onto a live hosting server *Pro ASP.NET Web API* Ali Uurlu,Alexander Zeitler,Ali Kheyrollahi,2013-11-26

Pro ASP NET Web API shows you how to build flexible extensible web services that run seamlessly on a range of operating systems and devices from desktops to tablets to smart phones even the ones we don t know today ASP NET Web API is a new framework designed to simplify web service architecture So if you re tired of interoperability issues between inflexible web services and clients tied to specific platforms or programming languages or if you ve ever struggled with WCF this book is for you To start with you ll get up to speed on Web API s modern HTTP programming model REST and your hosting options You ll then dive into building a real application over a series of three chapters so you can get an immediate feel for how this technology works in practice The second half of the book features dedicated chapters on topics like routing controllers validation and tracing and the authors close with discussions on performance hosting and an all important look at unit testing to help you prepare your application for the real world ASP NET Web API makes HTTP a first class citizen of NET With Pro ASP NET Web API you can build HTTP based web services for your company or business expose your data to the world across different formats and devices and gain the best possible global reach for your application **Designing Evolvable Web APIs with ASP.NET**

Glenn Block,Pablo Cibraro,Pedro Felix,Howard Dierking,Darrel Miller,2014-03-13 Design and build Web APIs for a broad range of clients including browsers and mobile devices that can adapt to change over time This practical hands on guide takes you through the theory and tools you need to build evolvable HTTP services with Microsoft s ASP NET Web API framework In the process you ll learn how design and implement a real world Web API Ideal for experienced NET developers this book s sections on basic Web API theory and design also apply to developers who work with other development stacks such as Java Ruby PHP and Node Dig into HTTP essentials as well as API development concepts and styles Learn ASP NET Web API fundamentals including the lifecycle of a request as it travels through the framework Design the Issue Tracker API example exploring topics such as hypermedia support with collection json Use behavioral driven development with ASP NET

Web API to implement and enhance the application Explore techniques for building clients that are resilient to change and make it easy to consume hypermedia APIs Get a comprehensive reference on how ASP.NET Web API works under the hood including security and testability *ASP.NET Core 9 Essentials* Albert S. Tanure, 2025-01-10 Make the most of the ASP.NET Core platform to create robust high quality solutions using approaches adopted by leading companies Key Features Create robust web based solutions optimized for continuous delivery using key cloud computing principles and practices Explore advanced concepts and techniques to create resilient and secure applications Adopt a cloud native mindset to build applications leveraging Docker CI/CD and more Purchase of the print or Kindle book includes a free PDF eBook Book Description Build cutting edge web applications using ASP.NET Core 9 with this comprehensive guide from Microsoft MVP Albert Tanure a seasoned .NET expert with over 20 years of experience as a cloud solutions architect Albert brings unparalleled expertise in building modern web applications to *ASP.NET Core 9 Essentials* to help you kickstart your journey on the right foot Starting with the platform's fundamental concepts you'll work through practical exercises to develop web applications with powerful UI frameworks deliver flexible and scalable solutions through an API approach and explore advanced topics such as customizing request flows and implementing robust security measures You'll get to grips with cloud native practices to prepare your applications for cloud environments Whether you're a beginner or an experienced developer this book is your guide to building modern secure and adaptable web applications with ASP.NET Core By the end you'll have the skills to create professional web applications that are scalable resilient and secure What you will learn Deliver UI solutions using client side server side and hybrid model approaches with Razor Pages MVC and Blazor Implement real time solutions and manage data streaming using SignalR Connect applications to a data persistence model using Entity Framework and Dapper Apply logging and monitoring strategies to maintain control over your applications Understand how .NET Aspire enhances your experience of building .NET cloud native apps Who this book is for This book is for web developers and software engineers who want to build modern web applications using ASP.NET Core It's ideal for those working on both frontend and backend development If you're familiar with C# or Java and have basic experience with HTML and CSS you'll benefit the most Whether you're a beginner exploring ASP.NET Core or an experienced developer looking to advance your skills this book is tailored for you *Cyber Security Essentials* James Graham, Ryan Olson, Rick Howard, 2016-04-19 The sophisticated methods used in recent high profile cyber incidents have driven many to need to understand how such security issues work Demystifying the complexity often associated with information assurance *Cyber Security Essentials* provides a clear understanding of the concepts behind prevalent threats tactics and procedures To accomplish **Web API Development with ASP.NET Core 8** Xiaodi Yan, 2024-04-05 Develop web API applications using design patterns advanced customization and cutting edge technologies such as SignalR gRPC and GraphQL while leveraging powerful cloud platforms and tools to accelerate development Key Features Gain proficiency in building modern ASP.NET Core web API applications

Develop the skills to effectively test debug and secure your web API applications Streamline development workflows and boost productivity with cloud computing platforms and industry standard CI CD tools Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWeb API applications have become increasingly significant in recent years fueled by the ever accelerating pace of technological advancements However with this rapid evolution comes the need to create web API apps that are not only functional but also adaptable maintainable and scalable to meet the demands of users and businesses alike This book draws from the author s immense technical expertise and decades of experience in software development to help you address this challenge head on equipping you with the knowledge and skills required to develop web API apps from scratch By providing a deeper understanding of the various protocols implemented by ASP NET Core including RESTful SignalR WebSocket gRPC and GraphQL supplemented by practical examples and optimization techniques such as using middleware testing caching and logging this book offers invaluable insights for both newcomers as well as seasoned developers to meet modern web development requirements Additionally you ll discover how to use cloud platforms such as Azure and Azure DevOps to enhance the development and operational aspects of your application By the end of this book you ll be fully prepared to undertake enterprise grade web API projects with confidence harnessing the latest advancements in ASP NET Core 8 to drive innovation What you will learn Build a strong foundation in web API fundamentals Explore the ASP NET Core 8 framework and other industry standard libraries and tools for high performance scalable web APIs Apply essential software design patterns such as MVC dependency injection and the repository pattern Use Entity Framework Core for database operations and complex query creation Implement robust security measures to protect against malicious attacks and data breaches Deploy your application to the cloud using Azure and leverage Azure DevOps to implement CI CD Who this book is for This book is for developers who want to learn how to build web APIs with ASP NET Core and create flexible maintainable scalable applications with NET platform Basic knowledge of C NET and Git will assist with understanding the concepts more easily [C# 13 and .NET 9 - Modern Cross-Platform Development Fundamentals , Ninth Edition](#) Mark J. Price,2024-11-12 An accessible guide for beginner to intermediate programmers to the concepts real world applications and latest features of C 13 and NET 9 with hands on exercises using Visual Studio and Visual Studio Code Key Features Explore the newest additions to C 13 the NET 9 class libraries and Entity Framework Core 9 Build professional websites and services with ASP NET Core 9 and Blazor Enhance your skills with step by step code examples and best practices tips Book Description This Packt bestseller continues to be the definitive guide to modern cross platform development The 9th edition of C 13 and NET 9 Modern Cross Platform Development Fundamentals has been updated to cover the latest features and improvements in NET 9 and C 13 You ll start by mastering object oriented programming learning how to write test and debug functions and implementing interfaces You ll then dive into NET APIs for data management filesystem operations and serialization This latest edition integrates NET 9 enhancements into its examples

faster exceptions and new LINQ methods New ASP NET Core 9 features include optimized static assets built in OpenAPI document generation and the HybridCache Practical examples such as building websites and services with ASP NET Core have been refreshed to utilize the latest NET 9 features The book also introduces Blazor with its new unified hosting model for unparalleled code reusability With these updates you ll learn how to build robust applications and services efficiently and effectively By the end of this book you ll have the knowledge and confidence to create professional and high performance web applications using the latest technologies in C 13 and NET 9 What you will learn Discover the new features of NET 9 including more flexible params and new LINQ like CountBy and Index Leverage the new ASP NET Core 9 features for optimized static assets OpenAPI document generation and HybridCache Utilize the native AOT publish capability for faster startup and reduced memory footprint Build rich web user interface experiences using Blazor in ASP NET Core 9 Integrate and update databases in your applications using Entity Framework Core 9 models Query and manipulate data using LINQ Build powerful services using Minimal APIs Who this book is for This book is aimed at beginner to intermediate level C and NET developers While prior exposure to C or NET is not a prerequisite a general understanding of programming concepts will be beneficial If you want to learn more technologies for building modern NET projects like gRPC SignalR and NET MAUI read Mark s Apps and Services with NET 8 book next and if you aim to become a professional NET developer quickly or mainly work on team projects read his other book Tools and Skills for NET 8

Pro ASP.NET Web API Security

Badrinarayanan Lakshmiraghavan,2013-03-26 ASP NET Web API is a key part of ASP NET MVC 4 and the platform of choice for building RESTful services that can be accessed by a wide range of devices Everything from JavaScript libraries to RIA plugins RFID readers to smart phones can consume your services using platform agnostic HTTP With such wide accessibility securing your code effectively needs to be a top priority You will quickly find that the WCF security protocols you re familiar with from NET are less suitable than they once were in this new environment proving themselves cumbersome and limited in terms of the standards they can work with Fortunately ASP NET Web API provides a simple robust security solution of its own that fits neatly within the ASP NET MVC programming model and secures your code without the need for SOAP meaning that there is no limit to the range of devices that it can work with if it can understand HTTP then it can be secured by Web API These SOAP less security techniques are the focus of this book What you ll learn Identity management and cryptography HTTP basic and digest authentication and Windows authentication HTTP advanced concepts such as web caching ETag and CORS Ownership factors of API keys client X 509 certificates and SAML tokens Simple Web Token SWT and signed and encrypted JSON Web Token JWT OAuth 2 0 from the ground up using JWT as the bearer token OAuth 2 0 authorization codes and implicit grants using DotNetOpenAuth Two factor authentication using Google Authenticator OWASP Top Ten risks for 2013Who this book is for No prior experience of NET security is needed to read this book All security related concepts will be introduced from first principles and developed to the point where you can use them confidently in a professional environment

A good working knowledge of and experience with C and the NET framework are the only prerequisites to benefit from this book

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ASP.NET Web API 2: Building a REST Service from Start to Finish Jamie Kurtz, Brian Wortman, 2014-08-07

The ASP NET MVC Framework has always been a good platform on which to implement REST based services but the introduction of the ASP NET Web API Framework raised the bar to a whole new level Now in release version 2 1 the Web API Framework has evolved into a powerful and refreshingly usable platform This concise book provides technical background and guidance that will enable you to best use the ASP NET Web API 2 Framework to build world class REST services New content in this edition includes New capabilities in Web API 2 currently version 2 1 Support for partial updates or PATCH API versioning Support for legacy SOAP based operations How to handle non resource APIs using REST How to best expose relationships between resources JSON Web Tokens CORS CSRF Get ready for authors Jamie Kurtz and Brian Wortman to take you from zero to REST service hero in no time at all No prior experience with ASP NET Web API is required all Web API related concepts are introduced from basic principles and developed to the point where you can use them in a production system A good working knowledge of C and the NET Framework are the only prerequisites to best benefit from this book

C# 12 and .NET 8 - Modern Cross-Platform Development Fundamentals Mark J. Price, 2023-11-14

An accessible guide for beginner to intermediate programmers to the concepts real world applications and latest features of C 12 and NET 8 with hands on exercises using Visual Studio 2022 and Visual Studio Code Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore the latest additions to C 12 the NET 8 class libraries and Entity Framework Core 8 Create professional websites and services with ASP NET Core 8 and Blazor Build your confidence with step by step code examples and tips for best practices Book Description This latest edition of the bestselling Packt series will give you a solid foundation to start building projects using modern C and NET with confidence You ll learn about object oriented programming writing testing and debugging functions and implementing interfaces You ll take on NET APIs for managing and querying data working with the file system and serialization As you progress you ll explore examples of cross platform projects you can build and deploy such as websites and services using ASP NET Core This latest edition integrates NET 8 enhancements into its examples type aliasing and primary constructors for concise and expressive code You ll handle errors robustly through the new built in guard clauses and explore a simplified implementation of caching in ASP NET Core 8 If that s not enough you ll also see how native ahead of time AOT compiler publish lets web services reduce memory use and run faster You ll work with the seamless new HTTP editor in Visual Studio 2022 to enhance the testing and debugging process You ll even get introduced to Blazor Full Stack with its new unified

hosting model for unparalleled web development flexibility What you will learn Discover C 12 s new features including aliasing any type and primary constructors Try out the native AOT publish capability for ASP NET Core 8 Minimal APIs web services Build rich web experiences using Blazor Full Stack Razor Pages and other ASP NET Core features Integrate and update databases in your apps using Entity Framework Core models Query and manipulate data using LINQ Build and consume powerful services using Web API and Minimal API Who this book is for This book is for beginners as well as intermediate level C and NET programmers who have worked with C in the past and want to catch up with the changes made in the last few years Prior exposure to C or NET is not a prerequisite A general understanding of programming will help you to work through the book more comfortably though the content is suitable for those completely new to programming If you already have some C and NET skills and want to focus on developing practical apps you can pick up Mark s other NET book [Apps and Services with NET 8](#) instead [Master .NET Fundamentals](#) Nirbhay Chauhan,2024-09-04 Learn Core Concepts Optimize Your Preparation Nail the Interview Process and Secure Your Dream Job in Tech Why You Should Read NET Interview Preparation Are you a NET developer looking to take your career to the next level If so then you need to read NET Interview Preparation This comprehensive guide is your one stop shop for mastering the essential concepts and skills required to ace your NET interviews Here s why you should read this book Comprehensive Coverage This book covers a wide range of topics including software development life cycle software development principles NET Framework history NET Framework design patterns exception handling ADO NET and EF Microsoft SQL Server and resume preparation Structured Approach The book is organized in a logical and easy to follow manner making it simple to understand and retain the information Practical Advice Throughout the book you ll find practical advice and tips that will help you apply the concepts you learn to real world interview questions Time Saving By reading this book you can save yourself the time and frustration of searching for information online and trying to organize your notes Digital Detox This physical book is a great alternative to spending hours in front of a computer screen allowing you to study more comfortably and efficiently Whether you re a beginner or an experienced NET developer this book is a valuable resource that will help you achieve your career goals Don t miss out on this opportunity to level up your NET skills and land your dream job **C# 11 and .NET 7 - Modern Cross-Platform Development Fundamentals** Mark J. Price,2022-11-08 Publisher s Note Microsoft will stop supporting NET 7 from May 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 Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore the newest additions to C 11 the NET 7 class libraries and Entity Framework Core 7 Create professional websites and services with ASP NET Core 7 and Blazor Build your confidence with step by step code examples and tips for best practices Book Description Extensively revised to accommodate the latest features that come with C 11 and NET 7 this latest edition of our 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 Next you'll take on NET APIs for performing tasks like managing and querying data working with the filesystem and serialization As you progress you'll also explore examples of cross platform projects you can build and deploy such as websites and services using ASP.NET Core Instead of distracting you with unnecessary graphical user interface code the first eleven chapters will teach you about C# language constructs and many of the .NET libraries through simple console applications Having mastered the basics you'll then start building websites web services and browser apps By the end of this book you'll be able to create rich web experiences and have a solid grasp of object oriented programming that you can build upon 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 Write test and debug functions Query and manipulate data using LINQ Integrate and update databases in your apps using Entity Framework Core models Build and consume powerful services using the latest technologies including Web API and Minimal API For .NET 6 developers C# 11 can be used with .NET 6 including features like raw string literals EF Core 7 targets .NET 6 so you can benefit from its new features like `ExecuteUpdate` and `ExecuteDelete` for more efficient data modifications Who this book is for This book is primarily for beginners but intermediate level 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 will also find plenty of useful information in it Prior exposure to C# or .NET is not a prerequisite but you should have a general understanding of programming before you jump in If you already have some C# and .NET skills and want to focus on developing apps we recommend that you pick up Mark's other .NET book *Apps and Services with .NET 7* instead

ASP.NET MVC 4 Recipes John Ciliberti, 2013-04-01 ASP.NET MVC 4 Recipes is a practical guide for developers creating modern web applications cutting through the complexities of ASP.NET, jQuery, Knockout.js and HTML 5 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 framework and development tools presenting typical challenges along with code solutions and clear concise explanations to accelerate application development Inside you will find recipes dealing with streamlined syntax full control over HTML a simple API for creating RESTful web services writing support for test driven development and more Solve problems immediately by pasting in code from the recipes or put multiple recipe solutions together to overcome challenging development obstacles Dive head first into ASP.NET MVC web development with ASP.NET MVC 4 Recipes

.NET Security and Cryptography Peter Thorsteinson, G. Gnana Arun Ganesh, 2004 Learn how to make your .NET applications secure Security and cryptography while always an essential part of the computing industry have seen their importance increase greatly in the last several years Microsoft's .NET Framework provides developers with a powerful new set of tools to make their applications secure .NET Security and Cryptography is a practical and comprehensive guide to implementing both the security and the cryptography features found in the .NET

platform The authors provide numerous clear and focused examples in both C and Visual Basic NET as well as detailed commentary on how the code works They cover topics in a logical sequence and context where they are most relevant and most easily understood All of the sample code is available online at This book will allow developers to Develop a solid basis in the theory of cryptography so they can understand how the security tools in the NET Framework function Learn to use symmetric algorithms asymmetric algorithms and digital signatures Master both traditional encryption programming as well as the new techniques of XML encryption and XML signatures Learn how these tools apply to ASP NET and Web Services security

Mastering ASP.net Cybellium, Embark on a Profound Journey to Mastering ASP NET Web Development In a digital landscape driven by dynamic web applications mastering the art of ASP NET is essential for creating robust and interactive web solutions that engage users and empower businesses Mastering ASP NET is your ultimate guide to navigating the intricate world of web development using the powerful ASP NET framework Whether you re a seasoned developer or an aspiring coder this book equips you with the knowledge and skills needed to excel in creating cutting edge web applications About the Book Mastering ASP NET takes you on a transformative journey through the intricacies of web development from foundational concepts to advanced techniques From front end design to back end functionality this book covers it all Each chapter is meticulously designed to provide both a deep understanding of the framework and practical applications in real world scenarios

Key Features

- Foundational Understanding** Build a strong foundation by comprehending the core principles of ASP NET including MVC architecture Razor syntax and server controls Web Forms and MVC Explore the different approaches to web development with ASP NET understanding the differences and choosing the best approach for your projects
- Data Binding and Models** Master data binding techniques model binding and working with data sources for creating dynamic and data driven web applications
- User Interface Design** Dive into responsive design CSS styling client side scripting and creating visually appealing user interfaces
- Security and Authentication** Learn how to implement security measures including user authentication authorization and protecting against common web vulnerabilities
- Web API and RESTful Services** Gain insights into building RESTful APIs creating Web API controllers and consuming APIs for seamless integration
- Entity Framework** Understand how to work with Entity Framework for data access and management ensuring efficient database interactions
- Testing and Debugging** Explore strategies for testing and debugging ASP NET applications ensuring code quality and reliable performance
- Challenges and Trends** Discover challenges in web development from cross browser compatibility to scalability and explore emerging trends shaping the future of ASP NET development

Who This Book Is For Mastering ASP NET is designed for developers programmers web designers students and anyone passionate about web development Whether you re aiming to enhance your skills or embark on a journey toward becoming an ASP NET expert this book provides the insights and tools to navigate the complexities of creating powerful web applications

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