

aspnet mvc interview questions and answer

Ace Your Next Interview: ASP.NET MVC Interview Questions and Answers

Introduction:

Landing your dream job as an ASP.NET MVC developer requires more than just technical skills; it demands the ability to articulate your expertise confidently during the interview process. This comprehensive guide provides you with a treasure trove of ASP.NET MVC interview questions and answers, meticulously categorized to cover fundamental concepts, advanced techniques, and real-world scenarios. Whether you're a junior developer preparing for your first interview or a seasoned professional aiming for a senior role, this resource will equip you with the knowledge and confidence to impress your potential employer and secure your next opportunity. We'll delve into core MVC principles, explore best practices, and dissect challenging scenarios to ensure you're fully prepared for any question thrown your way.

I. Core ASP.NET MVC Concepts:

A. What is ASP.NET MVC?

ASP.NET MVC (Model-View-Controller) is a web application framework developed by Microsoft. It's built on top of the .NET framework (or .NET Core) and follows the MVC architectural pattern, separating concerns into three interconnected parts:

Model: Represents the data and business logic of the application. Think of it as your application's data layer.

View: Responsible for presenting the data to the user. This is the user interface (UI) part.

Controller: Acts as an intermediary between the Model and the View, handling user input, processing data, and selecting the appropriate View to display.

B. Explain the MVC architectural pattern and its advantages.

The MVC pattern promotes a clean separation of concerns, leading to several advantages:

Improved Testability: Individual components (Model, View, Controller) can be tested independently, leading to more robust and reliable applications.

Enhanced Maintainability: Changes to one component are less likely to affect others, making maintenance and updates easier.

Better Organization: The structured approach improves code readability and understanding, facilitating collaboration among developers.

Parallel Development: Different developers can work on the Model, View, and Controller simultaneously, speeding up the development process.

C. Describe the roles of Models, Views, and Controllers in an ASP.NET MVC application.

Model: The model encapsulates the data and business logic. It interacts with the database (or other data sources), performs data validation, and provides data to the Controller. Examples include database entities, business objects, and data transfer objects (DTOs).

View: The view is responsible solely for presenting data to the user. It receives data from the Controller and displays it using HTML, CSS, and JavaScript. Views should be lean and focused on presentation. ASP.NET MVC uses Razor views (.cshtml files) which allow embedding C# code within HTML.

Controller: The controller acts as the orchestrator. It receives user requests, interacts with the Model to retrieve or manipulate data, and selects the appropriate View to render the response. Controllers contain actions (methods) that handle specific user requests.

II. Advanced ASP.NET MVC Topics:

A. Explain Routing in ASP.NET MVC.

Routing is the process of mapping incoming URL requests to specific controller actions. ASP.NET MVC uses a routing engine to interpret URLs and determine which controller and action should handle the request. This allows for creating clean, SEO-friendly URLs. Custom routes can be defined in the `RouteConfig.cs` file.

B. What are Filters in ASP.NET MVC? Give examples.

Filters in ASP.NET MVC provide a mechanism to execute code before or after specific actions in the controller lifecycle. They can be used for:

Authorization: Restricting access to specific actions based on user roles or permissions.

Exception Handling: Catching and handling exceptions gracefully.

Action Logging: Recording information about controller actions for auditing or debugging.

Output Caching: Caching the output of actions to improve performance.

C. Discuss different View Engines in ASP.NET MVC.

ASP.NET MVC supports different view engines, allowing developers to choose the best fit for their project. The most common is Razor, which is a highly efficient and elegant view engine. Other options might include Web Forms view engine (less common now) or custom view engines. Razor's syntax is concise and blends C# code seamlessly within HTML.

III. Practical Scenarios and Best Practices:

A. How would you handle data validation in ASP.NET MVC?

Data validation is crucial for ensuring data integrity. ASP.NET MVC offers several ways to handle this:

DataAnnotations: Using attributes like `[Required]`, `[StringLength]`, `[RegularExpression]` directly on model properties.

Model Binding: ASP.NET MVC automatically binds user input to model properties, and validation attributes are checked automatically.

Custom Validation: Creating custom validation logic for complex scenarios.

B. Describe your approach to building a secure ASP.NET MVC application.

Security should be a top priority. Best practices include:

Input Validation: Sanitize and validate all user input to prevent injection attacks (SQL injection, Cross-Site Scripting).

Authentication and Authorization: Implement robust authentication mechanisms (e.g., forms authentication, OAuth) and control access based on user roles.

HTTPS: Always use HTTPS to encrypt communication between the client and the server.

Regular Security Audits: Conduct regular security assessments to identify and address vulnerabilities.

C. Explain how you would handle large datasets in an ASP.NET MVC application.

Handling large datasets efficiently is vital for performance. Strategies include:

Pagination: Displaying data in smaller, manageable chunks.

Caching: Storing frequently accessed data in memory to reduce database load.

Data Access Optimization: Using efficient database queries and minimizing database round trips.

Asynchronous Operations: Employing asynchronous programming to prevent blocking the main thread.

Conclusion:

Mastering ASP.NET MVC is a journey that requires continuous learning and practice. This guide has provided you with a strong foundation, equipping you with the knowledge and confidence to tackle ASP.NET MVC interview questions effectively. Remember to showcase your problem-solving skills and articulate your understanding of the core principles and best practices. Good luck with your interviews!

Article Outline:

Title: Ace Your Next Interview: ASP.NET MVC Interview Questions and Answers

Introduction: Hooking the reader, overview of the article's content.

Chapter 1: Core ASP.NET MVC Concepts: Definition of ASP.NET MVC, MVC architectural pattern, roles of Model, View, Controller.

Chapter 2: Advanced ASP.NET MVC Topics: Routing, Filters, View Engines.

Chapter 3: Practical Scenarios and Best Practices: Data validation, security, handling large datasets.

Conclusion: Recap and encouragement.

FAQs: Nine unique frequently asked questions and answers.

Related Articles: List of nine related articles with brief descriptions.

(The above outline is reflected in the article content above.)

FAQs:

1. What is the difference between ASP.NET MVC and ASP.NET Web Forms? MVC emphasizes separation of concerns, while Web Forms is event-driven and more tightly coupled. MVC offers greater control and testability.
1. What are the advantages of using dependency injection in ASP.NET MVC? Dependency injection promotes loose coupling, improved testability, and easier maintenance.
1. How do you handle errors and exceptions in ASP.NET MVC? Use exception handling mechanisms (try-catch blocks), custom error pages, and logging for debugging and analysis. Consider using a centralized error handling mechanism.
1. What are some common security vulnerabilities in ASP.NET MVC applications, and how can they be prevented? SQL injection, cross-site scripting (XSS), cross-site request forgery (CSRF), and insecure data storage. Prevention involves input validation, proper authentication/authorization, and using HTTPS.
1. Explain the concept of model binding in ASP.NET MVC. Model binding is the process of automatically converting user input (from forms, URLs, etc.) into model objects.
1. How can you improve the performance of an ASP.NET MVC application? Optimize database queries, use caching, employ asynchronous programming, and minimize unnecessary computations.
1. What are the different types of filters in ASP.NET MVC and how are they used? Authorization, action, exception, result, and custom filters are used to control the flow and behavior of

requests and responses.

1. How do you implement unit testing in ASP.NET MVC? Use a testing framework like MSTest or NUnit to write unit tests for controllers, models, and other components. Focus on testing individual units of code in isolation.

1. What are some best practices for designing and maintaining an ASP.NET MVC application? Follow the SOLID principles, use a version control system (like Git), write clean and well-documented code, use a consistent coding style, and employ design patterns where appropriate.

Related Articles:

1. Understanding ASP.NET MVC Routing: A deep dive into creating and customizing routes for optimal URL management.

1. Mastering ASP.NET MVC Data Validation: Advanced techniques and best practices for ensuring data integrity.

1. Building Secure ASP.NET MVC Applications: A comprehensive guide to securing your applications against common vulnerabilities.

1. Optimizing Performance in ASP.NET MVC: Strategies for improving the speed and efficiency of your applications.

1. ASP.NET MVC Dependency Injection: Understanding and implementing dependency injection for better code organization.

1. Working with Asynchronous Programming in ASP.NET MVC: Efficiently handling long-running

operations without blocking the main thread.

1. Advanced ASP.NET MVC Filters: Exploring the power of filters for controlling application behavior.
1. Unit Testing Your ASP.NET MVC Application: A step-by-step guide to writing effective unit tests.
1. Designing Scalable ASP.NET MVC Architectures: Best practices for building applications that can handle growing user bases and data volumes.

aspnet mvc interview questions and answer: *ASP.NET MVC Interview Questions and Answers* Shailendra Chauhan, 2014-03-10 This book covers useful Interview Questions and Answers on ASP.NET MVC. This book is appropriate for novice as well as for senior level professionals who wants to strengthen their skills before appearing for an interview on ASP.NET MVC. This book is equally helpful to sharpen their programming skills and understanding ASP.NET MVC in a short time. This book is not only the ASP.NET MVC interview book but it is more than that. This book helps you to get the depth knowledge of ASP.NET MVC with a simple and elegant way. I hope you will enjoy this book and find it useful. At the same time I also encourage you to become a continue reader of the blog www.dotnet-tricks.com and be the part of the discussion. But most importantly practice a lot and enjoy the technology. That's what it's all about.

aspnet mvc interview questions and answer: *.Net Interview Questions* Koirala, 2005-09-15

aspnet mvc interview questions and answer: *Sql Server - Interview Questions* Shivprasad Koirala, 2005-05

aspnet mvc interview questions and answer: *Pro ASP.NET Core MVC* ADAM FREEMAN, 2016-09-15 Visual Studio 2017 updates for this book are now available. Follow the Download Source Code link for this book on the Apress website. Now in its 6th edition, the best selling book on MVC is now updated for ASP.NET Core MVC. It contains detailed explanations of the new Core MVC functionality which enables developers to produce leaner, cloud optimized and mobile-ready applications for the .NET platform. This book puts ASP.NET Core MVC into context and dives deep into the tools and techniques required to build modern, cloud optimized extensible web applications. All the new MVC features are described in detail and the author explains how best to apply them to both new and existing projects. The ASP.NET Core MVC Framework is the latest evolution of Microsoft's ASP.NET web platform, built on a completely new foundation. It represents a fundamental change to how Microsoft constructs and deploys web frameworks and is free of the legacy of earlier technologies such as Web 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.

aspnet mvc interview questions and answer: C# Interview Question and Answers Vishal Garg, 2021-04-03 C# interview questions is designed to help readers learn the concepts of C#. This book covers all the concepts of C# with the help of Interview question and Answers. More than 100 Questions are included in this book which are frequently asked in current scenario. It covers all the key areas like generics, memory management, linq, Oop, design patterns etc.

aspnet mvc interview questions and answer: Rockin the C# Interview Greg John Unger, 2014-03-05 Completed updated in 2015! Never be stuck not knowing the answer to a technical interview question! This book will get you prepared. Never get turned down again because you didn't know the answer to a technical questions. Even the most advanced C# concepts are in this book. The job market is tough and the competition has never been greater. It is necessary to stay ahead of the game and make sure you go into interviews prepared. You don't have time to waste to get the job of your dreams. 99% of candidates fail because they don't remember specifics. This book will give you the edge you need to put yourself above the rest. Interviewers are looking for people who know their profession inside and out. Here is your chance to shine. You aren't getting the job unless you know what is in this book! Written by one of the leading careers experts and bestselling author of 2015 New! Rockin the C# Interview Book, this definitive guide to questions and answers encourages every job-hunter to think on your feet and express your individuality while supplying ideal responses to interview questions so that you're seen as the ideal candidate for the job. Learn how to negotiate the best rate for any contract or salary to get the most compensation you can. This book tells you the secrets to get the most money for your time and effort. You are guaranteed to make an additional \$1k - \$50k more for the exact same job just by following my advice! Bonus questions and answers for MVC, ASP.Net, ADO.Net, Entity Framework, WCF, Silverlight and Object Oriented Programming.

aspnet mvc interview questions and answer: DotNet Interview Question and Answers Book Manish Soni, 2024-11-14 This book aims to equip you with the knowledge and confidence needed to ace .NET interviews. We have meticulously crafted a collection of interview questions and answers that cover a wide spectrum of topics, ensuring that you are well-prepared for any technical interview related to .NET development. Our journey begins with a fundamental understanding of the .NET Framework, diving into the inner workings of the Common Language Runtime (CLR) and exploring the basics of C# programming. We will then venture into essential Object-Oriented Programming (OOP) concepts in C# and take a close look at .NET Assemblies, Namespaces, Exception Handling, and Garbage Collection. As we progress, you will gain insights into crucial .NET development areas such as ASP.NET for web development, Entity Framework for database connectivity, WCF for building services, and Web API for RESTful interfaces. We'll also explore topics like Dependency Injection, IoC Containers, Multithreading, Design Patterns, and Unit Testing—skills that are highly sought after in today's software development landscape. Our goal is not only to provide you with answers but also to help you understand the underlying principles and best practices. Each topic is accompanied by detailed explanations and examples to reinforce your understanding. Whether you are a job seeker aiming to land your dream .NET development role or a professional striving to stay

at the top of your game, Mastering .NET is your comprehensive guide to success. Use this book as a valuable resource to hone your skills, build your confidence, and stand out in the competitive world of .NET development. We wish you the best of luck in your journey to mastering .NET, and we hope this book serves as a valuable asset on your path to success.

aspnet mvc interview questions and answer: Professional ASP.NET 3.5 Bill Evjen, Scott Hanselman, Devin Rader, 2011-01-11 In this book, you'll be introduced to the features and capabilities of ASP.NET 3.5, as well as the foundation that ASP.NET provides. Updated for the latest release of Visual Studio, this new edition adds five hundred pages of great new content compared to the original 2.0 version of the book. Including both printed and downloadable VB and C# code examples, this edition focuses even more on experienced programmers and advanced web development. New coverage includes new chapters on IIS 7 development, LINQ, ASP.NET, Silverlight, and many others.

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aspnet mvc interview questions and answer: Murach's ASP.NET Core MVC (2nd Edition) Joel Murach, Mary Delamater, 2022-11-21 This 2nd Edition of Murach's ASP.NET Core MVC does a better job than ever of delivering the skills you need to develop websites using the MVC (Model-View-Controller) pattern with ASP.NET Core. If you know the basics of C#, you'll quickly

learn to code the way today's top web professionals do. Each section features clear, beginner-friendly examples and easy-to-understand explanations that walk you through crucial skills, best practices, and helpful tips. I'm a first-time customer who has recently purchased your ASP.NET Core MVC book, and I have to say I'm greatly impressed. [It] was actually fun from start to finish (and I've read many, many programming books before). - Shannon Fairchild, Senior Software Developer, Kingston, Ontario, Canada

Section 1 (just 5 chapters) shows how to develop responsive web apps that follow the MVC pattern so they'll be easy to maintain as they grow and change. Then, it shows how to test and debug these apps using the debugging tools provided by Visual Studio and your browser. Section 2 builds out that set of skills to create more complex controllers, work with Razor views, handle cookies and sessions, work with model binding, validate data, and use EF Core to work with databases. Finally, section 3 presents additional skills that you can learn when you need them. Automate testing by using dependency injection and unit tests. Reduce code duplication by creating custom tag helpers and view components. Control user access to a site with ASP.NET Core Identity. Deploy a site to the cloud with Azure. And use Visual Studio Code, an increasingly popular alternative to the Visual Studio IDE. Every Murach book guarantees high quality. The complete apps show how each feature works in context. The exercises at the end of each chapter let you practice your new skills and gain valuable hands-on experience. And the distinctive paired-pages format is ideal for learning and reference.

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aspnet mvc interview questions and answer: 600+ Entity Framework Interview Questions and Answers Manish Salunke, Unlock your potential with the ultimate guide to mastering Entity Framework, one of the most popular Object-Relational Mapping (ORM) tools for .NET developers. Whether you're a fresher stepping into the world of data access in .NET or an experienced professional looking to brush up on your skills, this book has everything you need. This comprehensive collection features over 600 carefully curated interview questions and answers, ranging from basic to advanced topics, ensuring you're well-prepared for any interview scenario. Each question is crafted to test your understanding, and the detailed explanations provided will help you grasp complex concepts easily. The Multiple Choice Questions (MCQ) format offers a practical approach to learning, making it ideal for self-assessment and exam preparation. Inside this book, you'll find: A wide array of questions covering all aspects of Entity Framework, from core concepts to advanced techniques. Detailed answers and explanations that enhance your understanding and help you retain key concepts. Practical examples and scenarios that illustrate the real-world application of Entity Framework. A structured approach, making it easy to progress from beginner to expert level. Prepare to ace your interviews and solidify your knowledge of Entity Framework with this essential resource. Whether you're preparing for job interviews, enhancing your skills, or simply looking to deepen your understanding, this book is your go-to guide for all things Entity Framework.

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PDF, Kindle, and ePub formats from Manning Publications. About the Technology There's a mismatch in the way OO programs and relational databases represent data. Entity Framework is an object-relational mapper (ORM) that bridges this gap, making it radically easier to query and write to databases from a .NET application. EF creates a data model that matches the structure of your OO code so you can query and write to your database using standard LINQ commands. It will even automatically generate the model from your database schema. About the Book Using crystal-clear explanations, real-world examples, and around 100 diagrams, Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. You'll start with a clear breakdown of Entity Framework, long with the mental model behind ORM. Then you'll discover time-saving patterns and best practices for security, performance tuning, and even unit testing. As you go, you'll address common data access challenges and learn how to handle them with Entity Framework. What's Inside Querying a relational database with LINQ Using EF Core in business logic Integrating EF with existing C# applications Applying domain-driven design to EF Core Getting the best performance out of EF Core Covers EF Core 2.0 and 2.1 About the Reader For .NET developers with some awareness of how relational databases work. About the Author Jon P Smith is a full-stack developer with special focus on .NET Core and Azure. Table of Contents Part 1 - Getting started Introduction to Entity FrameworkCore Querying the database Changing the database content Using EF Core in business logic Using EF Core in ASP.NET Core web applications Part 2 - Entity Framework in depth Configuring nonrelational properties Configuring relationships Configuring advanced features and handling concurrency conflicts Going deeper into the DbContext Part 3 - Using Entity Framework Core in real-world applications Useful software patterns for EF Core applications Handling database migrations EF Core performance tuning A worked example of performance tuning Different database types and EF Core services Unit testing EF Core applications Appendix A - A brief introduction to LINQ Appendix B - Early information on EF Core version 2.1

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Anil Singh, 2019-09-18 Step by step guide to become an expert in Angular DESCRIPTION This book provide all the important aspects required for angular developers looking for brief and useful content for frequently asked Angular Interview questions. You have already worked with other Modern Web Frameworks like AngularJS 1.x, KnockoutJs, Ember, Backbone and now you are keen to become an expert in Angular including version 2, 4, 5 and 6. Ê You have no framework experience at all but you have a profound understanding of Angular and now you are keen to know how to bring your web apps as well as mobile apps to the next level. This book will give you an idea of the Angular framework (including version 2, 4, 5 and 6 and provide you an excellent understanding of the concepts. Ê Changing job is one of the biggest challenges for any IT professional. When IT professional starts searching job, they realise that they need much more than experience. Working on a project is one thing and cracking an interview is another. This book will give you a bird's eye view of what is needed in an interview. It will help you in doing a quick revision so that you can be ready for the discussion faster. KEY FEATURES Book provide all the important aspects required for angular developers Learn modern Web Frameworks like AngularJS 1.x, KnockoutJs, Ember, Backbone Book will give you an idea of the Angular framework (including version 2, 4, 5 and 6) and provide you an excellent understanding of the concepts. WHAT WILL YOU LEARN The Basic Concepts of Angular, its Components, Directives and Modules Angular Form, Elements, Templates, and Validations Dependency Injection (DI), HttpClientÊÊ Angular Services, Routing and NavigationÊÊ Angular Compiler, Pipes, Service Workers Server Side Rendering (Angular Universal)ÊÊ Angular Security, Cookies Basic Understanding of Angular Testing and TypeScript WHO THIS BOOK IS FOR You are new or have some experience in Angular and now want to take the step to become an expert in Angular and want to learn more about how you can apply the new concepts specifically for an Interview or developing robust web apps as well as mobile apps. Table of Contents 1.The Basic Concepts of Angular 2.ÊAngular Components 3.ÊÊAngular Directives 4.ÊÊÊÊAngular Modules 5.ÊÊAngular Form, Templates, and Validations 6.ÊÊÊAngular ElementsÊ 7.ÊÊDependency Injection (DI) 8.ÊHttpClient 9.Angular ServicesÊ 10.Routing and NavigationÊÊÊ

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aspnet mvc interview questions and answer: *Diving Into OOP* Akhil Mittal, 2017-01-24 The book explains the Object Oriented programming Concepts with C# in detail. The book is in the form of tutorial and explains deep core concepts of OOP that every programmer should know.

aspnet mvc interview questions and answer: *.NET Interview Q&A* B. M. Harwani, 1st, 2012-02-16 The .NET framework is a very popular software development framework from Microsoft. Because of its in built wealth of tools, technologies, and languages support that it is heavily used by developers around the world to develop web applications as well as robust enterprise applications. The goal of the book, .NET Interview Questions & Answers is to provide quick answers to the questions that a developer frequently comes across. If you are a developer, educator, professional or a beginner that want to find answers to the questions that you usually come across during developing web applications, teaching, learning, in Interviews, Viva test etc, then this book is for you. The book provides the answers to the questions divided into five categories: Must Know Questions - Includes answers to the general questions that a web developer is expected to know, like answers related to Active X control, MVC pattern, GET and POST methods, Script Injection Attacks, FTP, DNS, hosting a web site, XML, XSL, DLL, WCF and so on. General .NET Questions - Includes answers to basic .NET questions. Like, structure of .NET framework, CLR, ASP, ASP.NET, IIS, virtual directory and much more. Advanced .NET Questions - Includes answers to advanced .NET questions. Like, Cookies, Session tracking, data transfer, CSS styles, Themes, Skins, Master pages, web.config, machine.config file, Forms, Windows and Passport authentication and much more. Database Related Questions - Includes answers to the Database related questions like, ADO.NET, connection pooling, connection string, serialization, savepoint, rollback, grouping, aggregation, LINQ, BLOB etc. Questions Related to ASP.NET Controls - Includes answers to the questions related to ASP.NET controls like, AdRotator, Validation controls, SiteMap, ImageMap, GridView control and much more. About the Author B.M. Harwani is founder and owner of Microchip Computer Education (MCE), based in Ajmer, India that provides computer education in all programming and web developing platforms. He graduated with a BE in computer engineering from the University of Pune, and also has a 'C' Level (master's diploma in computer technology) from DOEACC, Government Of India. Being involved in teaching field for over 16 years, he has developed the art of explaining even the most complicated topics in a straight forward and easily understandable fashion. He has written several books on various subjects that includes C, C++, Java, JSP, JSF, EJB, PHP, .Net, Joomla, jQuery, Python, and Smartphones. He also writes articles on a variety of computer subjects which can be seen on a number of websites. To know more visit his blog, <http://bmharwani.com/blog>

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aspnet mvc interview questions and answer: *Smart and Gets Things Done* Avram Joel

Spolsky, 2007-10-17 A good programmer can outproduce five, ten, and sometimes more run-of-the-mill programmers. The secret to success for any software company then is to hire the good programmers. But how to do that? In Joel on Hiring, Joel Spolsky draws from his experience both at Microsoft and running his own successful software company based in New York City. He writes humorously, but seriously about his methods for sorting resumes, for finding great candidates, and for interviewing, in person and by phone. Joel's methods are not complex, but they do get to the heart of the matter: how to recognize a great developer when you see one.

aspnet mvc interview questions and answer: Essential Angular for ASP.NET Core MVC

Adam Freeman, 2017-07-26 Angular 5 and .NET Core 2 updates for this book are now available. Follow the Download Source Code link for this book on the Apress website. Discover Angular, the leading client-side web framework, from the point of view of an ASP.NET Core MVC developer. Best-selling author Adam Freeman brings these two key technologies together and explains how to use ASP.NET Core MVC to provide back-end services for Angular applications. This fast-paced, practical guide starts from the nuts and bolt and gives you the knowledge you need to combine Angular (from version 2.0 up) and ASP.NET Core MVC in your projects. What You'll Learn Gain a solid understanding of how ASP.NET Core MVC and Angular can work together Use Visual Studio 2017 to develop Angular/ASP.NET Core MVC projects Create ASP.NET Core RESTful web services to support Angular applications Expose data from Entity Framework Core to Angular applications Use ASP.NET Core Identity to provide security services to Angular applications Each topic is covered clearly and concisely and is packed with the essential details you need to learn to be truly effective. Who This Book Is For This book is for developers with a knowledge of ASP.NET Core MVC who are introducing Angular into their projects.

aspnet mvc interview questions and answer: Pro C# 7 Andrew Troelsen, Philip Japikse,

2017-11-21 This essential classic title provides a comprehensive foundation in the C# programming language and the frameworks it lives in. Now in its 8th edition, you'll find all the very latest C# 7.1 and .NET 4.7 features here, along with four brand new chapters on Microsoft's lightweight, cross-platform framework, .NET Core, up to and including .NET Core 2.0. Coverage of ASP.NET Core, Entity Framework (EF) Core, and more, sits alongside the latest updates to .NET, including Windows Presentation Foundation (WPF), Windows Communication Foundation (WCF), and ASP.NET MVC. Dive in and discover why Pro C# has been a favorite of C# developers worldwide for over 15 years. Gain a solid foundation in object-oriented development techniques, attributes and reflection, generics and collections as well as numerous advanced topics not found in other texts (such as CIL opcodes and emitting dynamic assemblies). With the help of this book you'll have the confidence to put C# into practice and explore the .NET universe on your own terms. What You Will Learn Discover the latest C# 7.1 features, from tuples to pattern matching Hit the ground running with Microsoft's lightweight, open source .NET Core platform, including ASP.NET Core MVC, ASP.NET Core web services, and Entity Framework Core Find complete coverage of XAML, .NET 4.7, and Visual Studio 2017 Understand the philosophy behind .NET and the new, cross-platform alternative, .NET Core

aspnet mvc interview questions and answer: Beginning ASP.NET 4 Imar Spaanjaars,

2010-07-23 The definitive programming guide to ASP.NET, by popular author and Microsoft MVP Imar Spaanjaars Updated for ASP.NET 4, this introductory book retains its helpful examples and step-by-step format from the previous version and keeps the style of offering code examples written in both C# and Visual Basic. Beloved author and Microsoft ASP.NET MVP walks you through ASP.NET, Microsoft's technology for building dynamically generated Web pages from database content. You'll discover many improvements that ASP.NET 4 offers over the previous version, such as the ASP.NET MVC framework, Ajax improvements, jQuery support, and more. You'll gradually build a Web site example that takes you through the processes of building basic ASP.NET Web pages, adding features with pre-built server controls, designing consistent pages, displaying data, and more. Popular author and Microsoft ASP.NET MVP Imar Spaanjaars updates you on the latest updates to ASP.NET 4, Microsoft's technology for building dynamic Web pages from database

content Shows you how the 4 version differs from ASP.NET 3.5 and reviews its new features, including the ASP.NET MVC framework, various Ajax improvements, jQuery support, and more Spaanjaars's distinct writing style puts you at ease with learning ASP.NET 4.

aspnet mvc interview questions and answer: C# in Depth Jonathan Skeet, 2019-03-07
Effective techniques and experienced insights to maximize your C# 6 and 7 programming skills
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C# is the foundation of .NET development. New features added in C# 6 and 7 make it easier to take on big data applications, cloud-centric web development, and cross-platform software using .NET Core. Packed with deep insight from C# guru Jon Skeet, this book takes you deep into concepts and features other C# books ignore. C# in Depth, Fourth Edition is an authoritative and engaging guide that reveals the full potential of the language, including the new features of C# 6 and 7. It combines deep dives into the C# language with practical techniques for enterprise development, web applications, and systems programming. As you absorb the wisdom and techniques in this book, you'll write better code, and become an exceptional troubleshooter and problem solver. What You Will Learn
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Extended pass-by-reference functionality
Writing asynchronous C# code
String interpolation
Composition with tuples
Decomposition and pattern matching
This Book Is Written For
For intermediate C# developers.
About The Author
Jon Skeet is a senior software engineer at Google. He studied mathematics and computer science at Cambridge, is a recognized authority in Java and C#, and maintains the position of top contributor to Stack Overflow.
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aspnet mvc interview questions and answer: 500 AngularJS Interview Questions and Answers Vamsee Puligadda, Get that job, you aspire for! Want to switch to that high paying job? Or are you already been preparing hard to give interview the next weekend? Do you know how many people get rejected in interviews by preparing only concepts but not focusing on actually which questions will be asked in the interview? Don't be that person this time. This is the most comprehensive Angular JS interview questions book that you can ever find out. It contains: 1000 most frequently asked and important Angular JS interview questions and answers
Wide range of questions which cover not only basics in Angular JS but also most advanced and complex questions which will help freshers, experienced professionals, senior developers, testers to crack their interviews.

aspnet mvc interview questions and answer: Pro ASP.NET Core 3 Adam Freeman, 2020-06-06
Now in its 8th edition, Pro ASP.NET Core has been thoroughly updated for ASP.NET Core 3 and online for ASP.NET Core 5 and .NET 5.0. This comprehensive, full-color guide is the only book you need to learn ASP.NET Core development. Professional developers get ready to produce leaner applications for the ASP.NET Core platform. This edition puts ASP.NET Core 3 into context, and takes a deep dive into the tools and techniques required to build modern, extensible web applications. New features and capabilities such as MVC 3, Razor Pages, Blazor Server, and Blazor WebAssembly are covered, along with demonstrations of how they can be applied in practice. Following the same popular format and style found in previous editions, author Adam Freeman explains how to get the most out of ASP.NET Core 3. Starting with the nuts-and-bolts topics, he

teaches readers about middleware components, built-in services, request model binding, and more. Moving along, he introduces increasingly more complex topics and advanced features, including endpoint routing and dependency injection. Written for professionals wanting to incorporate the latest functionality of ASP.NET Core 3 into their projects, this book also serves as a complete reference on ASP.NET Core. Beginners with some background in Microsoft web development will also greatly benefit from the in-depth coverage provided throughout. What You Will Learn: Build a solid foundation and skill set for working with the entire ASP.NET Core platformApply ASP.NET Core 3 and ASP.NET Core 5 features in your developer environment; plentiful reusable templatesSee how to create RESTful web services, web applications, and client-side applicationsLeverage existing knowledge to efficiently get up and running with new programming models Adam Freeman is an experienced IT professional who has held senior positions in a range of companies, most recently serving as chief technology officer and chief operating officer of a global bank. Now retired, he spends his time writing and long-distance running. "The Rolls-Royce of ASP.NET books, (or if you're American, the Cadillac). Very thorough!" Les Jackson, MCSD, DotNet Playbook "The author's instruction is direct, easy to understand and supplemented with clear code examples... Whether you are a beginner learning ASP.NET Core 3.1 app development, or an experienced professional ready to master advanced concepts, I consider this book a 'must have' for you! Jeremy Likness, Senior Program Manager, Microsoft "...the best single resource for teaching MVC web apps using ASP.NET. " Charles Carter, MSCS, MSwE, JD, Cloud Application Development Instructor, Microsoft Software and Systems Academy

aspnet mvc interview questions and answer: C# and ASP.NET Projects Shivprasad Koirala, Rajesh Pillai, Pravin Joshi, 2007-12 The book is a practical reference manual for implementing C # and ASP.NET projects.The book provides a wide-ranging overview on implementing C # and ASP.NET projects. It discusses six specific projects and each project is discussed from the points of view of the developer, the project manager, and the architect. Of the six projects discussed, three are essentially professional in orientation. The book also guides on the usage of Microsoft application blocks and provides model interview questions for learners to assess their knowledge. The book is accompanied by a CD which carries complete source codes and documentation related to the projects.

aspnet mvc interview questions and answer: Microservices Using ASP. NET Core Akhil Mittal, 2019-03-22 A handbook to get familiar with the Microservices concept and developing microservices using ASP.NET Core.This is a small book to cover the topic of microservices using a practical approach. Section 1, The Concept, makes you familiar with the concept of the Microservices. This section explains what are microservices, the architecture of microservices, the difference between monolithic and microservices. This section builds a deep understanding of microservices concept and architecture which is very important before you start development on microservices.Section 2, Docker section three of the book demonstrates the development of microservices and running microservices in separate instances at the same time. One of the instances would be running in a docker container. This section demonstrates the pre-requisites of having the microservice running in Docker and Docker installation.Section 3, Microservice using ASP.NET Core, this section will train you on how to create a microservice using ASP.NET Core. This section is a step by step guide to create a microservice using ASP.Net Core and Entity Framework Core and deploy and run the microservice.

aspnet mvc interview questions and answer: Pro ASP.NET Core MVC 2 Adam Freeman, 2017-10-24 Now in its 7th edition, the best selling book on MVC is updated for ASP.NET Core MVC 2. It contains detailed explanations of the 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 Web 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. The book includes a fully worked case study of a functioning web application that readers can use as a template for their own projects. What's New in This Edition Fully updated for Visual Studio 2017, C# 7 and .NET Core 2 Coverage of new features such as view filters Wider platform and tooling coverage than ever before, with more on Visual Studio Code and working with .NET Core on non-Windows platforms Docker-based application deployment 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 2 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 ASP.NET Core MVC 2 Framework.

aspnet mvc interview questions and answer: Pro ASP.NET MVC 5 Adam Freeman, 2014-02-28 The ASP.NET MVC 5 Framework is the latest evolution of Microsoft's ASP.NET web platform. It provides a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility, combined with all the benefits of ASP.NET. ASP.NET MVC 5 contains a number of advances over previous versions, including the ability to define routes using C# attributes and the ability to override filters. The user experience of building MVC applications has also been substantially improved. The new, more tightly integrated, Visual Studio 2013 IDE has been created specifically with MVC application development in mind and provides a full suite of tools to improve development times and assist in reporting, debugging and deploying your code. The popular Bootstrap JavaScript library has also now been included natively within MVC 5 providing you, the developer, with a wider range of multi-platform CSS and HTML5 options than ever before without the penalty of having to load-in third party libraries.

aspnet mvc interview questions and answer: ASP.NET Core Application Development James Chambers, David Paquette, Simon Timms, 2016-11-29 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through four complete sprints, this book takes you through every step needed to build brand new cross-platform web apps with ASP.NET Core, and make them available on the Internet. You won't just master Microsoft's revolutionary open source ASP.NET Core technology: you'll learn how to integrate the immense power of MVC, Docker, Azure Web Apps, Visual Studio and Visual Studio Code, C#, JavaScript, TypeScript, and Entity Framework. Working through the authors' carefully designed sprints, you'll start with a blank canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before.

aspnet mvc interview questions and answer: Programming the World Wide Web Robert W. Sebesta, 2010 Offers students an introduction to the Internet, focusing on the fundamental concepts surrounding client-side and server-side development for the web.

aspnet mvc interview questions and answer: The Algorithm Design Manual Steven S Skiena, 2009-04-05 This newly expanded and updated second edition of the best-selling classic continues to take the mystery out of designing algorithms, and analyzing their efficacy and efficiency. Expanding on the first edition, the book now serves as the primary textbook of choice for

algorithm design courses while maintaining its status as the premier practical reference guide to algorithms for programmers, researchers, and students. The reader-friendly Algorithm Design Manual provides straightforward access to combinatorial algorithms technology, stressing design over analysis. The first part, Techniques, provides accessible instruction on methods for designing and analyzing computer algorithms. The second part, Resources, is intended for browsing and reference, and comprises the catalog of algorithmic resources, implementations and an extensive bibliography. NEW to the second edition: • Doubles the tutorial material and exercises over the first edition • Provides full online support for lecturers, and a completely updated and improved website component with lecture slides, audio and video • Contains a unique catalog identifying the 75 algorithmic problems that arise most often in practice, leading the reader down the right path to solve them • Includes several NEW war stories relating experiences from real-world applications • Provides up-to-date links leading to the very best algorithm implementations available in C, C++, and Java

aspnet mvc interview questions and answer: Learning C# Jesse Liberty, 2002 From bestselling author Liberty comes an entry-level book that presents this young programming language and the basics of object-oriented .NET programming.

aspnet mvc interview questions and answer: Web Semantics & Ontology Taniar, David, Rahayu, Johanna Wenny, 2006-02-28 This book provides an overview of current research and development activities in the area of web semantics and ontology, giving an in-depth description of different issues, including modeling, using ontologies in enterprise systems, querying and knowledge discovering of ontologies--Provided by publisher.

aspnet mvc interview questions and answer: Programming Entity Framework Julia Lerman, Rowan Miller, 2012 Annotation Code first is an additional means of building a model to be used with the Entity Framework and is creating a lot of excitement in the .NET development community. The reader will begin with an overview of what code first is, why it was created, how it fits into the Entity Framework and when to use it over the alternatives.

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run into with data, and the best, most useful techniques to solve them. These practice problems involve only Select statements, used for data analysis and reporting, and not statements to modify data (insert, delete, update), or to create stored procedures. About the author: Hi, my name is Sylvia Moestl Vasilik. I've been a database programmer and engineer for more than 15 years, working at top organizations like Expedia, Microsoft, T-Mobile, and the Gates Foundation. In 2015, I was teaching a SQL Server Certificate course at the University of Washington Continuing Education. It was a 10 week course, and my students paid more than \$1000 for it. My students learned the basics of SQL, most of the keywords, and worked through practice problems every week of the course. But because of the emphasis on getting a broad overview of all features of SQL, we didn't spend enough time on the types of SQL that's used 95% of the time--intermediate and advanced Select statements. After the course was over, some of my students emailed me to ask where they could get more practice. That's when I was inspired to start work on this book.

aspnet mvc interview questions and answer: Learn MVC Project Sukesh Marla, 2018-06-02
Description: The best way to learn MVC is by doing a project and this book does the same. A complete MVC project is created from scratch with all best practices implemented. professional projects are not created by just using ASP.NET MVC you need other ingredients like HRML, JavaScript, JQuery, JSON, WebAPI so on. This book has covered all the necessary supporting technologies while making MVC project. Gone are those days of using ADO.NET to connect to database. In professional project developers use ORM technologies like Entity Framework. This book uses EF whenever there is a need of database communication. With the book we have provided DVD which has MVC video tutorials which will help you to kick start MVC with great speed. After every lab we have discussed important questions around the lab this will make you prepared for ASP.NET MVC interviews.

aspnet mvc interview questions and answer: C# Smorgasbord Filip Ekberg, 2012-07-30 C#
Smorgasbord covers a vast variety of different technologies, patterns and best practices that any C# developer should master. Looking at everything from testing strategies to compilation as a service and how to do really advance things in runtime; you get a great sense of what you as a developer can do. By taking his personal views and his personal experience, Filip digs into each subject with a personal touch and by having real world problems at hand; we can look at how these problems could be tackled. No matter if you are an experienced .NET developer, or a beginner, you will most certainly find a lot of interesting things in this book. The book covers important patterns and technologies that any developer would benefit from mastering. Explore your possibilities Improve your skills Be Inspired to challenge yourself Is there a digital version(ebook)? Yes there is! Everyone that purchases the printed copy will get the ebook for free. Instructions for how to receive the ebook is inside the printed book. Table of Contents Introduction to Parallel Extensions Productivity and Quality with Unit Testing Is upgrading your code a productive step? Creating a challenge out of the trivial tasks Asynchronous programming with async and await Dynamic programming Increase readability with anonymous types and methods Exploring Reflection Creating things at runtime Introducing Roslyn Adapting to Inversion of Control Are you Mocking me? Who this book is for This book is for those developers that find themselves wanting to explore C# but do not know how or where to start looking. Each chapter contains hands on code examples that can be compiled and tested on your machine. Although each chapter has code samples, you do not need to use a computer to appreciate the content of this book. The code samples are divided into smaller portions of code, so that you can follow each example and the thoughts around it in an easy way. No matter if you are an experienced .NET developer or a beginner, you will most certainly find a lot of interesting things in this book. The book covers important patterns and technologies that any developer would benefit from mastering. It is not required that you have worked with C# before but being familiar to the fundamentals in any of the .NET programming languages will help you on the way. If you are just now starting to learn C#, this can be a great way for you to learn about different techniques, best practices, patterns and how to think in certain scenarios. But if you have worked with C# development for many years, this book can give you a refreshing view on how to always improve and

challenge yourself into becoming a better software engineer.

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