Sync vs Async Communication

Request and wait for a response
Fire and forget with messages/events

@hnpej123

Synchronous

Request-response model

Send a request and wait for some response
Example: API requests

Asynchronous

Queue

Fire and forget model

Send message/event and forget
Example: Event Driven Architecture

For Beginners Async Communication

AW Rasmussen

For Beginners Async Communication:

Beginning JavaScript Jeremy McPeak,2015-02-18 The bestselling JavaScript guide updated with current features and best practices Beginning JavaScript 5th Edition shows you how to work effectively with JavaScript frameworks functions and modern browsers and teaches more effective coding practices using HTML5 This new edition has been extensively updated to reflect the way JavaScript is most commonly used today introducing you to the latest tools and techniques available to JavaScript developers Coverage includes modern coding practices using HTML5 markup the JSON data format DOM APIs the jQuery framework and more Exercises with solutions provide plenty of opportunity to practice and the companion website offers downloadable code for all examples given in the book Learn JavaScript using the most up to date coding style Understand JSON functions events and feature detection Utilize the new HTML5 elements and the related API Explore new features including geolocation local storage and more JavaScript has shaped the Web from a passive medium into one that is rich dynamic and interactive No matter the technology on the server side it s JavaScript that makes it come alive in the browser To learn JavaScript the way it s used today Beginning JavaScript 5th Edition is your concise guide *Django for Beginners, Fifth Edition* William S. Vincent,2024-07-11 Completely updated for Django 5 Django for Beginners is a project based introduction to Django the popular Python based web framework It is suitable for total beginners who have never built a website before and professional programmers looking for a fast paced guide to modern web development and Django fundamentals The completely revised fifth edition takes a practical approach introducing concepts through six projects designed to simulate real world scenarios From a Hello World website to a message board application a blogging platform and a newspaper CMS you ll learn about Django s architecture and how to add new functionality step by step This book is for readers with basic Python knowledge and programmers transitioning to Django from other web frameworks It is a fast paced guide that aligns with current best practices and modern web development with Django ensuring you re learning the most relevant and applicable skills In the book you ll learn how to Build 6 websites from scratch including a Blog platform and Newspaper CMS Deploy online using security best practices Implement signup login logout password change and password reset Customize the look and feel of your sites Write tests and run them for all your code Add permissions and authorizations to make your app more secure If you re curious about Python based web development Django for Beginners is a best practices guide to writing testing and deploying your own websites quickly *Beginning ASP.NET for Visual Studio 2015* William Penberthy,2016-01-26 The complete guide to the productivity and performance enhancements in ASP NET Beginning ASP NET for Visual Studio 2015 is your ultimate guide to the latest upgrade of this historically popular framework Fully updated to align with the vNext release this new edition walks you through the new tools and features that make your workflow smoother and your applications stronger You ll get up to speed on the productivity and performance improvements and learn how Microsoft has committed itself to more continuous innovation by increasing its release cadence for all

products and services going forward Coverage includes Async aware debugging ADO NET idle connection resiliency managed return value inspection ASP NET app suspension on demand large object heap compaction multi core JIT and more The news of an off cycle update to ASP NET came as a surprise but its announcement garnered cheers at the 2014 Microsoft BUILD conference This guide shows you what all the fuss is about and how Microsoft overhauled the latest ASP NET release Get acquainted with the new developer productivity features Master the new tools that build better applications Discover what s new in Windows Store app development Learn how Microsoft fixed the issues that kept you from v5 Over 38 million websites are currently using ASP NET and the new upgrade is already leading to increased adoption Programmers need to master v6 to remain relevant as web development moves forward Beginning ASP NET for Visual Studio 2015 walks you through the details and shows you what you need to know so you can get up and running quickly **Beginning ChatGPT for Python** Lydia Evelyn,Bruce Hopkins,2024-11-22 Unlock the future of software development and empower yourself to elevate your Python applications by harnessing the power of AI as this field continues to grow and evolve Perfect for beginner to intermediate Python programmers this book breaks down the essentials of using ChatGPT and OpenAI APIs You ll start with the basics learning to authenticate send prompts generate responses test in the Playground and handle errors with ease Each chapter includes hands on exercises that bring concepts to life demonstrating different API functionalities and practical applications You ll master models like GPT 4o GPT 4 GPT 3 5 Whisper and DALL E enabling you to enhance your applications with cutting edge AI Discover how generative AI tools like ChatGPT can automate tedious tasks rather than replace jobs Leverage ChatGPT s powerful Natural Language Processing NLP capabilities to handle various formats of unstructured text within your Python apps Quickly see how easy it is to use ChatGPT as your AI pair programmer boosting your productivity and speed This step by step guide will have you creating intelligent chatbots that can automatically process messages from Slack or Discord With Beginning ChatGPT for Python you ll master the ChatGPT and OpenAI APIs building intelligent applications that offer a personalized and engaging user experience What You ll Learn Connect with the ChatGPT and OpenAI APIs and send effective prompts Harness parameters like temperature and top_p to create unique and engaging responses from ChatGPT Create an intelligent assistant bot for Slack that automates tasks and enhances productivity Develop a bot that can moderate conversations and manage communities on Discord Add context to your prompts to get more accurate and relevant responses Who This Book Is For Python developers and enthusiasts who aspire to employ OpenAI and ChatGPT in the creation of intelligent applications to enhance productivity *Beginning Ajax with ASP.NET* Wallace B. McClure,2006-09-05 By leveraging a number of existing and popular technologies Ajax allows Web applications to make quick updates to the user interface without reloading the entire browser page It is an ideal resource for developers who want to get started with Ajax oriented Web developments using current technologies in particular Atlas **DOS for Beginners** Dan Kauffman,1990 **Communications and Networking for the IBM PC** Larry E. Jordan,Bruce Churchill,1983 Treats

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