HIGH PERFORMANCE DJANGO

by Peter Baumgartner and Yann Malet

From the Django experts at Lincoln Loop

High Performance Django

Ralf Kohl

High Performance Django :

   High Performance Django Peter Baumgartner,Yann Malet,2015-03-31 Getting started with Django is easy There are tutorials and books that literally walk you through the process of getting your first site up and running Taking that code from your laptop to the real world is like opening pandora s box Should I use Apache Gunicorn uWSGI or something else Where should I use caching to make things faster How do I know if my database has the right indexes or if it needs more resources Do I need a NoSQL database like MongoDB The site runs great on my laptop Why is it so slow in production How many servers does my site need How big should they be What is the 20% effort that will solve 80% of my performance problems If you ve asked yourself any of these questions you re like most Django developers Heck we were asking some of the same questions when we started working with Django 7 years ago at Lincoln Loop Since then we ve built deployed and maintained a lot of Django sites Everything from realtime applications to large scale CMSes with tons of traffic Quite frankly we made a lot of mistakes but we learned a lot too High Performance Django is the book we wish we had when we got started It will give you a repeatable blueprint for building and deploying fast scalable Django sites More information and ebook formats available at https highperformancedjango com   Learning Django 5 Clara Stein,2024-06-20 Learning Django 5 is intended to help Python programmers aspiring full stack developers and web developers build robust and scalable web applications quickly and efficiently with a basic understanding of Python scripting Hands on labs and interactive tasks are used throughout the book to help you practice and apply the concepts as you learn Beginning with a thorough introduction to Django 5 you ll learn how to install and configure Django on a Linux server set up virtual environments and create your first Django project BookTech The book walks you through the fundamentals of Django models and ORM teaching you how to define models perform database migrations and interact with the ORM to optimize data querying You will learn about Django views including function based and class based views URL mapping and form handling The templates section will show you how to create and inherit templates use template tags and filters and pass data to templates for dynamic rendering Advanced topics are thoroughly covered including user authentication permission management and extending the default user model You ll also learn how to use essential features like site maps RSS feeds and SEO optimization to boost your app s visibility and user engagement The book then goes over deployment and scaling teaching you how to containerize your application with Docker deploy to cloud platforms like AWS and set up continuous integration and deployment pipelines in Jenkins You will learn how to maintain and monitor your application with tools such as Amazon CloudWatch New Relic and Sentry ensuring that it runs smoothly in production Key Learnings Comprehensive Django setup with step by step installation and configuration of Django 5 Mastering models and ORM to define models and interact with databases efficiently Understand and implement both function based and class based views seamlessly Perform dynamic template rendering wherein you create inherit and customize templates for dynamic web content Achieve robust user authentication by implementing secure

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NET Core with C and Spring Boot with Java this compendium empowers you to create APIs that set new industry benchmarks In depth tutorials will empower you to master data serialization robust authentication protocols and impervious security measures This book also delves into the more advanced topics encompassing API governance meticulous versioning strategies cross origin resource sharing CORS considerations real time capabilities and microservices communication intricacies You ll gain insights into vigilant monitoring astute analytics and optimization techniques that truly differentiate your APIs Moreover this book navigates the ever evolving legal and privacy landscape confidently ensuring compliance and upholding user trust and provides the expertise needed to craft more efficient APIs that stand at the forefront of modern digital innovation Presenting real world case studies comprehensive explanations and practical illustrations Mastering REST APIs is your compass to navigate the complex world of web development What You ll Learn REST architectures and how it shapes modern API development Effectively develop and build APIs using a diverse set of web development frameworks Dive into advanced topics such as API governance real time features microservices communication Review real world case studies and hands on examples helping you to actively design implement and optimize APIs Who This book Is For Experienced web developers software engineers and tech enthusiasts who are looking to supercharge their API development knowledge and take it to the next level **Internet of Things: A Hands-On Approach** Arshdeep Bahga,Vijay Madisetti,2014-08-09 Internet of Things IoT refers to physical and virtual objects that have unique identities and are connected to the internet to facilitate intelligent applications that make energy logistics industrial control retail agriculture and many other domains smarter Internet of Things is a new revolution of the Internet that is rapidly gathering momentum driven by the advancements in sensor networks mobile devices wireless communications networking and cloud technologies Experts forecast that by the year 2020 there will be a total of 50 billion devices things connected to the internet This book is written as a textbook on Internet of Things for educational programs at colleges and universities and also for IoT vendors and service providers who may be interested in offering a broader perspective of Internet of Things to accompany their own customer and developer training programs The typical reader is expected to have completed a couple of courses in programming using traditional high level languages at the college level and is either a senior or a beginning graduate student in one of the science technology engineering or mathematics STEM fields Like our companion book on Cloud Computing we have tried to write a comprehensive book that transfers knowledge through an immersive hands on approach where the reader is provided the necessary guidance and knowledge to develop working code for real world IoT applications Additional support is available at the book s website www internet of things book com Organization The book is organized into 3 main parts comprising of a total of 11 chapters Part I covers the building blocks of Internet of Things IoTs and their characteristics A taxonomy of IoT systems is proposed comprising of various IoT levels with increasing levels of complexity Domain specific Internet of Things and their real world applications are described A generic design methodology for IoT is proposed An IoT

system management approach using NETCONF YANG is described Part II introduces the reader to the programming aspects of Internet of Things with a view towards rapid prototyping of complex IoT applications We chose Python as the primary programming language for this book and an introduction to Python is also included within the text to bring readers to a common level of expertise We describe packages frameworks and cloud services including the WAMP AutoBahn Xively cloud and Amazon Web Services which can be used for developing IoT systems We chose the Raspberry Pi device for the examples in this book Reference architectures for different levels of IoT applications are examined in detail Case studies with complete source code for various IoT domains including home automation smart environment smart cities logistics retail smart energy smart agriculture industrial control and smart health are described Part III introduces the reader to advanced topics on IoT including IoT data analytics and Tools for IoT Case studies on collecting and analyzing data generated by Internet of Things in the cloud are described **Managing Disaster Risks to Cultural Heritage** Bijan Rouhani,Xavier Romão,2023-11-15 Managing Disaster Risks to Cultural Heritage presents case studies from different regions in the world and establishes a framework for understanding identifying and analysing disaster risks to immovable cultural heritage Featuring contributions from academics and practitioners from around the globe the book presents a comprehensive view of the scholarship relating to cultural heritage disaster risk preparedness and post disaster recovery Particular attention is given to the complex and dynamic nature of disaster risks and how they evolve during different phases of a catastrophic event especially as hazards can create secondary effects that have greater impacts on cultural heritage infrastructure and economy Arguing that risk preparedness and mitigation have historically been secondary to reactive emergency and first aid response the book demonstrates that preparedness plans based on sound risk assessments can prevent hazards from becoming disasters Emphasising that the protection of cultural heritage through preparedness mitigation actions and risk adaptation measures especially for climate change can contribute to the resilience of societies the book highlights the vital role of communities in such activities Managing Disaster Risks to Cultural Heritage will be useful to students professionals and scholars studying and working with cultural heritage protection It will be of particular interest to those working in the fields of Cultural Heritage Archaeology Conservation and Preservation Sustainable Development and Disaster Studies **Python Programming, Deep Learning** Anthony Adams,2021-12-17 Easily Boost Your Skills In Python Programming Become A Master In Deep Learning Data Analysis Python is an interpreted high level general purpose programming language that emphasizes code readability with its notable use of significant whitespace What makes Python so popular in the IT industry is that it uses an object oriented approach which enables programmers to write clear logical code for all types of projects whether big or small Hone your Python Programming skills and gain a sharp edge over other programmers the EASIEST way possible with this practical beginner s guide In his 3 in 1 Python crash course for beginners Anthony Adams gives novices like you simple yet efficient tips and tricks to become a MASTER in Python coding for artificial intelligence neural networks

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operating real systems in production Are performance bottlenecks fragile deployments and architectural drift slowing your team down as your application grows This book is written for developers who already know Django but now need to build systems that last Advanced Django 6 0 Architecture provides a practical system level guide to designing and operating modern Django applications under real world constraints Rather than focusing on isolated features or introductory concepts this book addresses the architectural decisions that determine whether a Django codebase remains maintainable scalable and safe to change over time It shows how to structure projects for growth introduce concurrency and background processing responsibly design robust APIs secure applications by default and evolve live systems without downtime Throughout the book you will see how Django 6 0 fits into a broader production architecture how requests flow where failures emerge and how to design boundaries that protect your system as complexity increases Every chapter emphasizes practical patterns that have been proven in long running Django systems with a strong focus on predictability observability and operational safety By the end of this book you will be able to Design modular Django architectures that support team collaboration and long term growth Identify performance bottlenecks and scale beyond CRUD using caching async execution and background tasks Build secure versioned REST and GraphQL APIs with clear contracts and compatibility strategies Introduce async views task processing and concurrency without destabilizing production systems Refactor active Django applications safely using feature flags backward compatible migrations and controlled rollouts Implement testing CI CD and deployment strategies that enable zero downtime releases Monitor profile and evolve Django systems using observability driven decisions and architectural records This book is not about shortcuts or trends It is about making deliberate architectural choices understanding their consequences and building Django systems that continue to perform as traffic features and teams grow If you are responsible for a Django application that must scale remain reliable and stay maintainable over years not months this book will give you the clarity and structure you need Build Django systems with confidence Design for change Get your copy today   **Hi Fi/stereo Review** ,1982   **Dr. Dobb's Journal** ,2008

Inductive Logic Programming ,2004   **AI*IA ...** Associazione italiana per l'intelligenza artificiale. Congress,2003

Django Essentials for the Modern Developer Danny I Belcher,2025-09-18 Have you ever wondered why some web applications feel fast secure and reliable while others fall apart under real world pressure Do you find yourself asking how you can build applications that not only work but are maintainable scalable and designed for the demands of modern users Django Essentials for the Modern Developer Crafting High Performance Web Apps with Best Practices and Real World Patterns was written with you in mind This book is not just about learning Django it s about mastering it in a way that makes your projects future proof efficient and ready for production Instead of leaving you with scattered tutorials or shallow introductions this guide takes you through a structured journey of Django development You ll explore how to organize projects the right way design powerful APIs integrate real time features and style applications with modern front end tools

Each chapter is packed with explanations practical examples and patterns you can immediately apply to your own projects But here s the real question what do you want to achieve as a developer If your goal is to Build web applications that can handle high traffic without crumbling Apply security measures that protect data and users from common threats Automate testing deployment and scaling so you can focus on features Create interfaces that look as good as they perform Or simply feel confident that you are building your apps the right way Then this book was written for you You ll also find exclusive hands on examples such as building a live classroom platform with real time features creating a multi tenant blogging system with isolated schemas and deploying production ready apps with cloud native practices These examples are designed to give you confidence in tackling real business problems not just toy projects Whether you are an intermediate developer looking to sharpen your skills or a professional aiming to refine your toolkit this book will equip you with the knowledge and strategies you need to thrive in modern web development So are you ready to take your Django skills to a level where your applications aren t just working they re performing at their best   *High Fidelity* ,1979 Contains Records in review   <u>Video Source Book</u> ,2008   **Bags' Grooves** ,2006

Adopting the Melody of Phrase: An Psychological Symphony within **High Performance Django**

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