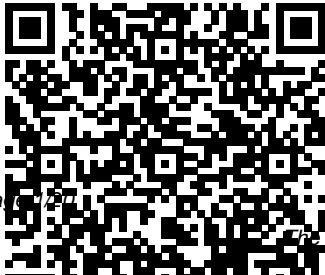

The Definitive Guide To Django Web Development Done Right Adrian Holovaty

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Practical Django Projects Packt Publishing Ltd

Build maintainable websites with elegant Django design patterns and modern best practices

Key Features

- Explore aspects of Django from Models and Views to testing and deployment
- Understand the nuances of web development such as browser attack and data design
- Walk through various asynchronous tools such as Celery and Channels

Book Description

Building secure and maintainable web applications requires comprehensive knowledge. The second edition of this book not only sheds light on Django, but also encapsulates years of experience in the form of design patterns and best practices. Rather than sticking to GoF design patterns, the book looks at higher-level patterns. Using the latest version of Django and Python, you 'll learn about

Channels and asyncio while building a solid conceptual background. The book compares design choices to help you make everyday decisions faster in a rapidly changing environment. You 'll first learn about various architectural patterns, many of which are used to build Django. You 'll start with building a fun superhero project by gathering the requirements, creating mockups, and setting up the project. Through project-guided examples, you 'll explore the Model, View, templates, workflows, and code reusability techniques. In addition to this, you 'll learn practical Python coding techniques in Django that 'll enable you to tackle problems related to complex topics such as legacy coding, data modeling, and code reusability. You 'll discover API design principles and best practices, and understand the need for asynchronous

workflows. During this journey, you'll study popular Python code testing techniques in Django, various web security threats and their countermeasures, and the monitoring and performance of your application. What you will learn

- Make use of common design patterns to help you write better code
- Implement best practices and idioms in this rapidly evolving framework
- Deal with legacy code and debugging
- Use asynchronous tools such as Celery, Channels, and asyncio
- Use patterns while designing API interfaces with the Django REST Framework
- Reduce the maintenance burden with well-tested, cleaner code
- Host, deploy, and secure your Django projects

Who this book is for This book is for you whether you're new to Django or just want to learn its best practices. You do not have to be an expert in Django or

Python. No prior knowledge of patterns is expected for reading this book but it would be helpful.

Mastering Django: Core Apress

Full Stack Python Security teaches you everything you'll need to build secure Python web applications. Summary In Full Stack Python Security: Cryptography, TLS, and attack resistance, you'll learn how to: Use algorithms to encrypt, hash, and digitally sign data Create and install TLS certificates Implement authentication, authorization, OAuth 2.0, and form validation in Django Protect a web application with Content Security Policy Implement Cross Origin Resource Sharing Protect against

common attacks including clickjacking, denial of service attacks, SQL injection, cross-site scripting, and more Full Stack Python Security: Cryptography, TLS, and attack resistance teaches you everything you'll need to build secure Python web applications. As you work through the insightful code snippets and engaging examples, you'll put security standards, best practices, and more into action. Along the way, you'll get exposure to important libraries and tools in the Python ecosystem. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Security is a full-stack concern, encompassing user interfaces, APIs, web servers, network infrastructure, and everything in between. Master the powerful libraries, frameworks, and tools in the Python ecosystem and you can protect your systems top to bottom. Packed with realistic examples, lucid illustrations, and working code, this book shows you exactly how to secure Python-based web applications. About the book Full Stack Python Security: Cryptography, TLS, and attack resistance teaches you everything you need to secure Python and Django-based web apps. In it, seasoned security pro Dennis Byrne demystifies complex security terms and algorithms. Starting with a clear review of cryptographic foundations, you'll

learn how to implement layers of defense, secure user authentication and third-party access, and protect your applications against common hacks. What's inside Encrypt, hash, and digitally sign data Create and install TLS certificates Implement authentication, authorization, OAuth 2.0, and form validation in Django Protect against attacks such as clickjacking, cross-site scripting, and SQL injection About the reader For intermediate Python programmers. About the author Dennis Byrne is a tech lead for 23andMe, where he protects the genetic data of more than 10 million customers. Table of Contents 1 Defense in depth PART 1 - CRYPTOGRAPHIC FOUNDATIONS 2 Hashing 3 Keyed hashing 4 Symmetric encryption 5 Asymmetric encryption 6 Transport Layer Security PART 2 - AUTHENTICATION AND AUTHORIZATION 7 HTTP session management 8 User authentication 9 User password management 10 Authorization 11 OAuth 2 PART 3 - ATTACK RESISTANCE 12 Working with the operating system 13 Never trust input 14 Cross-site scripting attacks 15 Content Security Policy 16 Cross-site request forgery 17 Cross-Origin Resource Sharing 18 Clickjacking

DocBook 5: The Definitive Guide Packt Publishing Ltd
Being a beginner's guide this book has a very simple and

clear approach. It is a practical guide that will help you learn the features of Django and help you build a dynamic website using those features. This book is for web developers who want to see how to build a complete site with Web 2.0 features, using the power of a proven and popular development system, but do not necessarily want to learn how a complete framework functions in order to do this. Basic knowledge of Python development is required for this book, but no knowledge of Django is expected.	<u>The Definitive Guide to Django</u> Apress Learn how to leverage Django, the leading Python web application development framework, to its full potential in this advanced tutorial and reference. Updated for Django 1.5 and Python 3, Pro Django, Second Edition examines in great detail the complex problems that Python web application developers can face and how to solve them. It provides in – depth information about advanced tools and techniques available in every Django installation, running the gamut from the theory of Django ’ s internal operations to actual code that solves real – world problems for high – volume environments. Pro Django, Second Edition goes above and beyond other books, leaving the basics far
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behind and showing how Django can do things even its core developers never expected. By drawing on the dynamic nature of Python, you can write Django applications that stretch the limits of what you thought possible! What you ' ll learn Use Django ' s models, views, forms, and templates Handle HTTP and customizing back ends Get the most out of Django ' s common tooling Employ Django in various environments Build an API using Django's own components Make this code reusable—even distributable Who this book is for This book is for companies looking for a framework capable of supporting enterprise needs, as well as advanced Python or web developers looking to solve unusual, complex problems. Table of Contents

Understanding Django Django Is Python Models URLs and Views Forms Templates Handling HTTP Backend Protocols Common Tools Coordinating Applications Enhancing Applications The Definitive Guide to Modernizing Applications on Google Cloud "O'Reilly Media, Inc."

Django is a popular Python-based framework for web application development. Like Python, Django is easy for beginners to learn and enables constant progress. This book will help aspiring web developers gain the skills to use Django to develop robust web apps.

The Definitive Guide to Grails 2 Sams Publishing

If you're ready to use Closure to build rich web applications with JavaScript, this hands-

on guide has precisely what you need to learn this suite of tools in depth. Closure makes it easy for experienced JavaScript developers to write and maintain large and complex codebases—as Google has demonstrated by using Closure with Gmail, Google Docs, and Google Maps. Author and Closure contributor Michael Bolin has included numerous code examples and best practices, as well as valuable information not available publicly until now. You'll learn all about Closure's Library, Compiler, Templates, testing framework, and Inspector—including how to minify JavaScript code with the Compiler, and why the combination of the Compiler and the Library is what sets Closure apart from other JavaScript toolkits. Learn how the Compiler significantly reduces the

amount of JavaScript users have to download when visiting your site Discover several ways to use the Compiler as part of your build process Learn about type expressions, primitives, and common utilities Understand how Closure emulates classes and class-based inheritance Use Closure Templates on the server and the client from either JavaScript or Java Test and debug your JavaScript code, even when it's compiled

[Django Design Patterns and Best Practices](#)
"O'Reilly Media, Inc."

Django is the leading Python web application development framework. Learn how to leverage the Django web framework to its full potential in this advanced tutorial and reference. Endorsed by Django, Pro Django more or less picks up where The Definitive Guide to Django left off and

examines in greater detail the unusual and complex problems that Python web application developers can face and how to solve them. Provides in – depth information about advanced tools and techniques available in every Django installation Runs the gamut from the theory of Django ’ s internal operations to actual code that solves real – world problems for high – volume environments Goes above and beyond other books, leaving the basics behind Shows how Django can do things even its core developers never dreamed possible

Spark: The Definitive Guide Packt Publishing Ltd

Pro WordPress Theme Development is your comprehensive guide to creating advanced WordPress themes. Designed for for professional web designers and developers who are comfortable with PHP and WordPress, this book teaches you every aspect of professional theme

development. You will learn how to build themes from scratch, how to monetize the themes you create, and how to capitalize on this by creating advanced themes for your clients or selling premium themes. This book builds on your current knowledge of PHP and web development to create a WordPress theme from scratch. It uses a real-world theme example that you can build, to demonstrate each feature in a practical way. It shows you how to take control of WordPress with custom posts types and taxonomies, and covers anatomy and hierarchy, use of the loop, hooks, short codes, plug-ins and much more. WordPress is one of the most successful open-source blogging and content management systems available, and theme development has become a major part of the WordPress ecosystem. Start working with WordPress themes like a pro today with Pro WordPress Theme Development.

Django 3 Apress

A step-by-step that will help you build Microservices architecture using Django and Python

KEY FEATURES

- a- Understand in-depth the fundamentals of Microservices
- a- Learn how to create and use Django APIs
- a- Use web technology such as Nginx, Gunicorn, UWSGI, and Postgresql to deploy a Django project

DESCRIPTION

Microservices architectures solve the multiple problems of software architecture. Django is a full-stack development framework, written in python. This book includes everything necessary for web application development; from the user views to the information storage: model, persistence, relationships, controllers, forms, validations, rest API and a very useful back office. Furthermore, the book will show how to build production-ready microservices. It will help you create restful

APIs and get familiar with Redis and Celery.

Towards the end, the book will show how to secure these services and deploy these microservices using Django. Lastly, it will show how to scale our services.

WHAT WILL YOU LEARN

- a- Understand the basics of Python, Django, and Microservices
- a- Learn how to deploy Microservices with Django
- a- Get familiar with Microservices Architecture - Designing, Principles, and Requirements
- a- Implement Asynchronous task, JWT API Authentication and AWS Serverless with Microservice architecture

WHO THIS BOOK IS FOR

This book is for those beginners who want to make their careers in software development. It starts from the basics of python and Django, takes the reader to the Microservices architecture.

Table of Contents

1. Basic of Python
2. Major Pillars of OOPS with Python
3. Getting Started with Django
4. API

Development with Django5. Database Modeling with Django6. First Django API Deployment on Web7. Django Project Deployment on various web servers8. What are Microservices9. Designing Microservice Systems10. Service Authentication11. Microservices Deployment With Django12. JWT Auth Service13. Asynchronous Tasks14. AWS Serverless15. How to Adopt Microservices in Practice About the Author Shayank Jain is a software developer and data analyst. He is strongly passionate about coding and architectural design. He has more than 6.5 years of professional experience in developing scalable software solutions for various organizations. He has been programming since the age of 16 and has developed software for mobile, web, hardware gaming and standalone applications. After getting his hands dirty with programming, he found many new ways to debug and deploy the code successfully with minimal time constraints. After reading and implementing, he found out that many critical concepts can be implemented easily in programming with correct and focused thinking. His research interests include information security, cryptography, analysis, design, and implementation of algorithms. He has extensively worked with python and implemented new ideas on various projects in his free time. He is also active in the computer science and education community. Through this book, he wants to share these methodologies and tricks with the beginners. Outside work, Shayank spends his spare time helping, coaching, and mentoring young people in taking up careers in technology. Your Blog links: <https://shayankit.wixsite.com/intro>25 Your LinkedIn Profile:

<https://www.linkedin.com/in/shayankjain>

Django 3 By Example Still River Press

Jython is an open source implementation of the high-level, dynamic, object-oriented scripting language Python seamlessly integrated with the Java platform. The predecessor to Jython, JPython, is certified as 100% Pure Java. Jython is freely available for both commercial and noncommercial use and is distributed with source code. Jython is complementary to Java. The Definitive Guide to Jython, written by the official Jython team leads, covers Jython 2.5 (or 2.5.x)—from the basics to more advanced features. This book begins with a brief introduction to the language and then journeys through Jython ' s different features and uses. The Definitive Guide to Jython is organized for beginners as well as advanced users of the language. The book provides a general overview of the Jython language itself, but it also includes intermediate and advanced topics regarding database, web, and graphical user interface (GUI) applications; Web services/SOA; and

integration, concurrency, and parallelism, to name a few.

The Definitive Guide to Jython Apress

(Guitar Recorded Versions). Authentic transcriptions in notes and tab for 20 classic performances by this vastly talented gypsy whose name is synonymous with jazz guitar. Includes: Ain't Misbehavin' * Belleville * Daphne * Dinah * Djangology * Honeysuckle Rose * Limehouse Blues * Marie * Minor Swing * Nuages * Old Folks at Home (Swanee River) * Stardust * Tiger Rag (Hold That Tiger) * and more.

Ajax Packt Publishing Ltd

Discover the Django web application framework and get started building Python-based web applications. This book takes you from the basics of Django all the way through to cutting-edge topics such as creating RESTful applications. Beginning Django also covers ancillary, but essential, development

topics, including configuration settings, static resource management, logging, debugging, and email. Along with material on data access with SQL queries, you ' ll have all you need to get up and running with Django 1.11 LTS, which is compatible with Python 2 and Python 3. Once you ' ve built your web application, you ' ll need to be the admin, so the next part of the book covers how to enforce permission management with users and groups. This technique allows you to restrict access to URLs and content, giving you total control of your data. In addition, you ' ll work with and customize the Django admin site, which provides access to a Django project ' s data. After reading and using this book, you ' ll be able to build a Django application top to bottom and be ready to

move on to more advanced or complex Django application development. What You'll Learn Get started with the Django framework Use Django views, class-based views, URLs, middleware, forms, templates, and Jinja templates Take advantage of Django models, including model relationships, migrations, queries, and forms Leverage the Django admin site to get access to the database used by a Django project Deploy Django REST services to serve as the data backbone for mobile, IoT, and SaaS systems Who This Book Is For Python developers new to the Django web application development framework and web developers new to Python and Django. Elasticsearch: The Definitive Guide "O'Reilly Media, Inc." Learn Django 3 with four end-to-end web

projects Key Features Learn Django 3 by building real-world web applications from scratch in Python, using coding best practices Integrate other technologies into your application with clear, step-by-step explanations and comprehensive example code Implement advanced functionalities like a full-text search engine, a user activity stream, or a recommendation engine Add real-time features with Django Channels and WebSockets Book Description If you want to learn the entire process of developing professional web applications with Python and Django, then this book is for you. In the process of building four professional Django projects, you will learn about Django 3 features, how to solve common web development problems, how to implement

best practices, and how to successfully deploy your applications. In this book, you will build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Step-by-step guidance will teach you how to integrate popular technologies, enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. By the end of this book, you will have mastered Django 3 by building advanced web applications. What you will learn Build real-world web applications Learn Django essentials, including models, views, ORM, templates, URLs, forms, and authentication Implement advanced features such as custom model fields, custom template tags, cache, middleware, localization, and more Create

complex functionalities, such as AJAX interactions, social authentication, a full-text search engine, a payment system, a CMS, a RESTful API, and more. Integrate other technologies, including Redis, Celery, RabbitMQ, PostgreSQL, and Channels, into your projects. Deploy Django projects in production using NGINX, uWSGI, and Daphne. Who this book is for: This book is intended for developers with Python knowledge who wish to learn Django in a pragmatic way. Perhaps you are completely new to Django, or you already know a little but you want to get the most out of it. This book will help you to master the most relevant areas of the framework by building practical projects from scratch. You need to have familiarity with programming concepts in

order to read this book. Some previous knowledge of HTML and JavaScript is assumed.

Sams Teach Yourself Django in 24 Hours Apress
Three of CouchDB's creators show you how to use this document-oriented database as a standalone application framework or with high-volume, distributed applications. With its simple model for storing, processing, and accessing data, CouchDB is ideal for web applications that handle huge amounts of loosely structured data. That alone would stretch the limits of a relational database, yet CouchDB offers an open source solution that's reliable, scales easily, and responds quickly. CouchDB works with self-contained data that has loose or ad-hoc connections. It's a model that fits many real-world items, such as contacts, invoices, and receipts, but you'll discover that this database can easily handle data

of any kind. With this book, you'll learn how to work with CouchDB through its RESTful web interface, and become familiar with key features such as simple document CRUD (create, read, update, delete), advanced MapReduce, deployment tuning, and more. Understand the basics of document-oriented storage and manipulation Interact with CouchDB entirely through HTTP using its RESTful interface Model data as self-contained JSON documents Handle evolving data schemas naturally Query and aggregate data in CouchDB using MapReduce views Replicate data between nodes Tune CouchDB for increased performance and reliability

The Definitive Guide To Django Sams Publishing

Django is an amazingly powerful system for creating modern, dynamic websites. But

programming Django hasn't always been easy—until now. Django Unleashed is your step-by-step, beginner-friendly guide to leveraging Django's core capabilities and its powerful contributed library. You'll learn in the most effective way possible: hands on, by building a fully functional Django website from scratch. You'll even deploy the website to the cloud. As you build your website, expert Django consultant and trainer Andrew Pinkham reveals how websites operate; how Django makes building websites easy; how to write Python code that leverages its immense capabilities; and how to build solutions that are robust, reliable, and secure. You'll start simply and learn to solve increasingly challenging problems: mastering new features and understanding how Django's

architecture shapes their behavior, and gaining essential knowledge for working with any web framework, not just Django.

Pro Django "O'Reilly Media, Inc."

Build a Django content management system, blog, and social networking site with James Bennett as he introduces version 1.1 of the popular Django framework. You'll work through the development of each project, implementing and running the applications while learning new features along the way. Web frameworks are playing a major role in the creation of today's most compelling web applications, because they automate many of the tedious tasks, allowing developers to instead focus on providing users with creative and powerful features. Python developers have been particularly fortunate in this area, having been able to take advantage of Django, a very popular open-source web

framework whose stated goal is to "make it easier to build better web applications more quickly with less code." Practical Django Projects introduces this popular framework by way of a series of real – world projects. Readers follow along with the development of each project, implementing and running each application while learning new features along the way. This edition is updated for Django 1.1 and includes an all-new chapter covering practical development tools and techniques you'll be able to apply to your own development workflow.

Hal Leonard Corporation

Provides information on the basics of Ajax to create Web applications that function like desktop programs.

The Hitchhiker's Guide to Python Apress

This latest edition of The Definitive Guide to Django is updated for Django 1.1, and, with the

forward – compatibility guarantee that Django now provides, should serve as the ultimate tutorial and reference for this popular framework for years to come. Django, the Python – based equivalent to Ruby's Rails web development framework, is one of the hottest topics in web development today. Lead developer Jacob Kaplan – Moss and Django creator Adrian Holovaty show you how they use this framework to create award – winning web sites by guiding you through the creation of a web application reminiscent of ChicagoCrime.org. The Definitive Guide to Django is broken into three parts, with the first introducing Django fundamentals such as installation and configuration, and creating the components that together power a Django – driven web site. The second part delves into the more sophisticated features of Django, including outputting non – HTML content such as RSS feeds and PDFs, caching, and user management. The appendixes serve as a detailed reference to Django's many configuration options and commands.

Pro WordPress Theme Development BPB Publications

Get to grips with the tools, services, and functions needed for application migration to help you move from legacy applications to cloud-native on Google Cloud Key FeaturesDiscover how a sample legacy application can be transformed into a cloud-native application on Google CloudLearn where to start and how to apply application modernization techniques and toolingWork with real-world use cases and instructions to modernize an application on Google CloudBook Description Legacy applications, which comprise 75 – 80% of all enterprise applications, often end up being stuck in data centers. Modernizing these applications to make them cloud-native enables them to scale in a cloud environment without taking months or years to start seeing the

benefits. This book will help software developers and solutions architects to modernize their applications on Google Cloud and transform them into cloud-native applications. This book helps you to build on your existing knowledge of enterprise application development and takes you on a journey through the six Rs: rehosting, replatforming, rearchitecting, repurchasing, retiring, and retaining. You'll learn how to modernize a legacy enterprise application on Google Cloud and build on existing assets and skills effectively. Taking an iterative and incremental approach to modernization, the book introduces the main services in Google Cloud in an easy-to-understand way that can be applied immediately to an application. By the end of this Google Cloud book, you'll have learned how to modernize a legacy enterprise application by exploring various interim architectures and tooling to develop a cloud-native microservices-based application. What you will learn Discover the principles and best practices for building cloud-native applications Study the six Rs of migration strategy and learn when to choose which strategy Rehost a legacy enterprise application on Google Compute Engine Replatform an application to use Google Load Balancer and Google Cloud SQL Refactor into a single-page application (SPA) supported by REST services Replatform an application to use Google Identity Platform and Firebase Authentication Refactor to microservices using the strangler pattern Automate the deployment process using a CI/CD pipeline with Google Cloud Build Who this book is for This book is for software developers and solutions architects looking to gain experience in modernizing their enterprise applications to run on Google Cloud and transform them into cloud-native applications. Basic knowledge of Java and Spring Boot is necessary. Prior knowledge of Google Cloud is useful but not mandatory.

CouchDB: The Definitive Guide Packt Publishing Ltd

Completely updated for Django 4.0 & Django REST Framework 3.13! Django for APIs is a project-based

guide to building modern web APIs with Django & Django REST Framework. It is suitable for beginners who have never built an API before as well as professional programmers looking for a fast-paced introduction to Django fundamentals and best practices. Over the course of 200+ pages you'll learn how to set up a new project properly, how web APIs work under the hood, and advanced testing and deployment techniques. Three separate projects are built from scratch with progressively more advanced features including a Library API, Todo API, and Blog API. User authentication, permissions, documentation, viewsets, and routers are all covered thoroughly. Django for APIs is a best-practices guide to building powerful Python-based web APIs with a minimal amount of code.