

EXPERT INSIGHT

# Django 5 By Example

Build powerful and reliable Python  
web applications from scratch

Fifth Edition

Antonio Melé



<packt>

# Django Example Antonio Mele

**Brad Dayley**



## **Django Example Antonio Mele:**

**Django 2 by Example** Antonio Melé, 2018-05-31 Learn Django 2.0 with four end-to-end projects. Key Features: Learn Django by building real-world web applications from scratch. Develop powerful web applications quickly using the best coding practices. Integrate other technologies into your application with clear step-by-step explanations and comprehensive example code. Book Description: If you want to learn about the entire process of developing professional web applications with Django, then this book is for you. This book will walk you through the creation of four professional Django projects, teaching you how to solve common problems and implement best practices. You will learn how to build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. The book will teach you how to enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. The book walks you through the creation of real-world applications while solving common problems and implementing best practices. By the end of this book, you will have a deep understanding of Django and how to build advanced web applications. What you will learn: Build practical real-world web applications with Django. Use Django with other technologies such as Redis and Celery. Develop pluggable Django applications. Create advanced features, optimize your code, and use the cache framework. Add internationalization to your Django projects. Enhance your user experience using JavaScript and AJAX. Add social features to your projects. Build RESTful APIs for your applications. Who this book is for: If you are a web developer who wants to see how to build professional sites with Django, this book is for you. You will need a basic knowledge of Python, HTML, and JavaScript, but you don't need to have worked with Django before. *Django 4 By Example* Antonio Melé, 2022-08-29 PUBLISHER S NOTE: A new edition of this book, updated for Django 5, is now available. Key Features: Implement advanced functionalities such as full-text search engines, user activity streams, payment gateways, and recommendation engines. Integrate JavaScript, PostgreSQL, Redis, Celery, and Memcached into your applications. Add real-time features with Django Channels and WebSockets. Book Description: *Django 4 By Example* is the 4th edition of the best-selling franchise that helps you build web apps. This book will walk you through the creation of real-world applications, solving common problems and implementing best practices using a step-by-step approach. You'll cover a wide range of web app development topics as you build four different apps: A blog application. Create data models, views, and URLs, and implement an admin site for your blog. Create sitemaps and RSS feeds, and implement a full-text search engine with PostgreSQL. A social website. Implement authentication with Facebook, Twitter, and Google. Create user profiles, image thumbnails, a bookmarklet, and an activity stream. Implement a user-follower system and add infinite scroll pagination to your website. An e-commerce application. Build a product catalog, a shopping cart, and asynchronous tasks with Celery and RabbitMQ. Process payments with Stripe and manage payment notifications via webhooks. Build a product recommendation engine with Redis. Create PDF invoices and export orders to CSV. An e-learning platform. Create a content management system to manage polymorphic content. Cache content with

Memcached and Redis Build and consume a RESTful API Implement a real time chat using WebSockets with ASGI Create a production environment using NGINX uWSGI and Daphne with Docker Compose This is a practical book that will have you creating web apps quickly What you will learn Learn Django essentials including models ORM views templates URLs forms authentication signals and middleware Implement different modules of the Django framework to solve specific problems Integrate third party Django applications into your project Build asynchronous ASGI applications with Django Set up a production environment for your projects Easily create complex web applications to solve real use cases Who this book is for This book is for readers with basic Python knowledge and programmers transitioning from other web frameworks who wish to learn Django by doing If you already use Django or have in the past and want to learn best practices and integrate other technologies to scale your applications then this book is for you too This book will help you master the most relevant areas of the framework by building practical projects from scratch Some previous knowledge of HTML and JavaScript is assumed

**Django by Example** Antonio Mele, 2015-11-30 Create your own line of successful web applications with Django About This Book Learn Django by building four fully functional real world web applications from scratch Develop powerful web applications quickly using the best coding practices Integrate other technologies into your application with clear step by step explanations and comprehensive example code Who This Book Is For If you are a web developer who is completely new or familiar with Django and want to make the most out of it this book is for you Some basic knowledge of Python HTML and JavaScript is beneficial but is not required What You Will Learn Build a search engine with Django and Solr Add asynchronous tasks to applications with Celery Create pluggable Django applications by building an activity stream system Enhance the user experience using AJAX views Extend the Django Admin site with custom actions Use third party Django applications to add social authentication to projects Manage payments and orders by integrating a third party payment gateway Engage users by building a gamification system In Detail Django is a powerful Python web framework designed to solve all types of web development problems and questions providing Python developers with an easy solution to web application development With a wealth of third party modules available you ll be able to create a highly customizable web application with this powerful framework This book will walk you through the creation of four professional Django projects and show you how to solve common problems and implement best practices The book begins by first showing you how to create a simple blog and integrate it with third party applications before gradually moving on to extending this blog by adding features such as custom template tags and filters You will build a complete social website share its contents track user actions in a timeline and use Redis with Django to store item views You will also build an online shop manage its payments and orders and add internationalization and localization to the project Before you are introduced to content creation and building an evaluation system you will build an e learning application Finally you will build a gamification system where you will learn to build a badges application and get familiar with Django management commands After reading

this book you will have a good understanding of how Django works and how to integrate it with other technologies You will be able to build advanced Django applications for production use Style and approach This is an easy to follow guide to building four different production ready Django projects Each project focuses on a particular area of the framework and each topic within the projects is explained with practical examples and includes best practice recommendations [Django 3 By Example](#) Antonio Melé, 2020-03-31 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 *Django by Example* Antonio Melé, 2016 Django is a powerful Python web framework designed to develop web applications quickly from simple prototypes to large scale projects Django encourages clean pragmatic design and provides developers with a comprehensive set of tools to build scalable web applications This video will walk you through the creation of four professional Django projects teaching you how to solve common problems and implement best practices You will learn how to build a search engine and implement a user activity stream Furthermore you will create a recommendation engine an e commerce coupon system and a content management system The video will also teach you how to enhance your applications with AJAX create RESTful APIs and setup a production

environment for your Django projects After going through this video you will have a good understanding of how Django works and how to integrate it with other technologies to build practical advanced web applications Resource description page *Product Management Essentials* Aswin Pranam,2017-12-12 Gain all of the techniques teachings tools and methodologies required to be an effective first time product manager The overarching goal of this book is to help you understand the product manager role give you concrete examples of what a product manager does and build the foundational skill set that will gear you towards a career in product management To be an effective PM in the tech industry you need to have a basic understanding of technology In this book you ll get your feet wet by exploring the skills a PM needs in their toolset and cover enough ground to make you feel comfortable in a technical discussion A PM is not expected to have the same level of depth or knowledge as a software engineer but knowing enough to continue the conversation can be a benefit in your career in product management A complete product manager will have a 360 degree understanding of user experience and how to craft beautiful products that are easy to use with the end user in mind You ll continue your journey with a walk through basic UX principles and even go through the process of building a simple set of UI frames for a mock app Aside from the technical and design expertise a PM needs to master the social aspects of the role Acting as a bridge between engineering marketing and other teams can be difficult and this book will dive into the business and soft skills of product management After reading *Product Management Essentials* you will be one of a select few technically capable PMs who can interface with management stakeholders customers and the engineering team What You Will Learn Gain the traits of a successful PM from industry PMs VCs and other professionals See the day to day responsibilities of a PM and how the role differs across tech companies Absorb the technical knowledge necessary to interface with engineers and estimate timelines Design basic mocks high fidelity wireframes and fully polished user interfaces Create core documents and handle business interactions Who This Book Is For Individuals who are eyeing a transition into a PM role or have just entered a PM role at a new organization for the first time They currently hold positions as a software engineer marketing manager UX designer or data analyst and want to move away from a feature focused view to a high level strategic view of the product vision

*Django 5 By Example - Fifth Edition* ANTONIO. MELE,2024-04-30 This Packt bestseller will help you master the important areas of the Django framework as you build practical projects from scratch **Django 3 By Example - Third Edition** Antonio Melé,2020 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 **Django 2** Antonio Mele, 2020-07-27 Descubre el proceso completo para desarrollar aplicaciones web profesionales con Django Este libro le guiar a trav s de la creaci n de cuatro proyectos pr cticos con Django para saber c mo resolver problemas comunes e implementar las mejores pr cticas de desarrollo A lo largo de la lectura aprender a construir una aplicaci n blog un sitio web social para compartir im genes una tienda online y una plataforma e learning El libro no solo trata el desarrollo de aplicaciones web con Django sino tambi n c mo mejorar la experiencia de usuario mediante AJAX y JavaScript integrar otras tecnolog as como Redis y Celery as como crear APIs REST para exponer servicios a terceros Al finalizar el libro dispondr de un conocimiento profundo sobre c mo construir aplicaciones web avanzadas con Django Contenidos del libro Crear proyectos web profesionales con Django Utilizar Django con otras tecnolog as como Redis y Celery Desarrollar aplicaciones Django reutilizables Crear funcionalidades avanzadas optimizar c digo y utilizar la cach Aadir internacionalizaci n a proyectos Django Mejorar la experiencia de usuario utilizando JavaScript y AJAX Aadir funcionalidades sociales a los proyectos 2Construir APIs REST para exponer funcionalidades a terceros **Django 2** Antonio Mele, Descubre el proceso completo para desarrollar aplicaciones web profesionales con Django Este libro le guiar a trav s de la creaci n de cuatro proyectos pr cticos con Django para saber c mo resolver problemas comunes e implementar las mejores pr cticas de desarrollo A lo largo de la lectura aprender a construir una aplicaci n blog un sitio web social para compartir im genes una tienda online y una plataforma e learning El libro no solo trata el desarrollo de aplicaciones web con Django sino tambi n c mo mejorar la experiencia de usuario mediante AJAX y JavaScript integrar otras tecnolog as como Redis y Celery as como crear APIs REST para exponer servicios a terceros Al

finalizar el libro dispondr de un conocimiento profundo sobre c mo construir aplicaciones web avanzadas con Django  
 Contenidos del libro Crear proyectos web profesionales con Django Utilizar Django con otras tecnolog as como Redis y  
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 adir internacionalizaci n a proyectos Django Mejorar la experiencia de usuario utilizando JavaScript y AJAX A adir  
 funcionalidades sociales a los proyectos Construir APIs REST para exponer funcionalidades a terceros *Python Web  
 Development with Django* Jeff Forcier,Paul Bissex,Wesley J Chun,2008-10-24 Using the simple robust Python based Django  
 framework you can build powerful Web solutions with remarkably few lines of code In Python Web Development with Django  
 three experienced Django and Python developers cover all the techniques tools and concepts you need to make the most of  
 Django 1.0 including all the major features of the new release The authors teach Django through in depth explanations plus  
 provide extensive sample code supported with images and line by line explanations You ll discover how Django leverages  
 Python s development speed and flexibility to help you solve a wide spectrum of Web development problems and learn  
 Django best practices covered nowhere else You ll build your first Django application in just minutes and deepen your real  
 world skills through start to finish application projects including Simple Web log blog Online photo gallery Simple content  
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 Django Project 337 Index 339 Colophon 375 **Practical Django Projects** James Bennett,2008-08-31 Build a Django  
 content management system blog and social networking site with James Bennett as he introduces 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 is the first book to introduce this popular framework by way of a series of real world projects *Practical Django 2 and Channels 2* Federico Marani,2018-12-14 Learn how to rapidly build your own ecommerce site by applying Django s battle tested components This book demonstrates Django s features and conventions to help you develop modern web applications quickly You ll adopt a learn by doing approach and gain a deeper understanding Django by working through a project in which the real time component will be critical The book starts with the basics and explains the difference between a Django project and a Django app the most important settings how to change them and the fundamentals of packaging You ll then be introduced to all the standard tools of Django along with a sample project The book then moves on to Channels a recent addition to the Django ecosystem It extends the framework with support for real time operations such as Websockets and other asynchronous features Practical Django 2 and Channels 2 provides the practical concepts needed to create complex database driven websites as easily as possible What You ll Learn Build and deploy a simple company site with Django Develop more complex data heavy sites using the Django ORM Integrate Django with Channels Unit test your solutions Who This Book Is For Python developers and web developers wanting to learn Django 2 and Channels 2 **Becoming an Enterprise Django Developer** Michael Dinder,2022-06-27 A Python web developer s guide to exploring the Django development lifecycle beyond the basics Key FeaturesExpert tips to help you use the right packages tools and libraries and understand their scope for your projectGain a thorough understanding of the essential components that comprise a large scale Python web appLearn best practices for creating a project structure for better performanceBook Description Django is a powerful framework but choosing the right add ons that match the scale and scope of your enterprise projects can be tricky This book will help you explore the multifarious options available for enterprise Django development Countless organizations are already using Django and more migrating to it unleashing the power of Python with many different packages and dependencies including AI technologies This practical guide will help you understand practices blueprints and design decisions to put Django to work the way you want it to You ll learn various ways in which data can be rendered onto a page and discover the power of Django for large scale production applications Starting with the basics of getting an enterprise project up and running you ll get to grips with maintaining the project throughout its lifecycle while learning what the Django application lifecycle is By the end of this book you ll have learned how to build and deploy a Django project to the web and implement various components into the site What you will

learnUse Django to develop enterprise level apps to help scale your businessUnderstand the steps and tools used to scale up a proof of concept project to production without going too deep into specific technologiesExplore core Django components and how to use them in different ways to suit your app s needsFind out how Django allows you to build RESTful APIsExtract parse and migrate data from an old database system to a new system with Django and PythonWrite and run a test using the built in testing tools in DjangoWho this book is for This book is for Django developers who want to learn the full stack enterprise app development lifecycle If you are a Python web developer looking to learn how to maintain a production website and explore Django beyond the basics this book is for you The book assumes intermediate level knowledge of Python programming and the Django framework

**Django 2 Web Development Cookbook** Jake Kronika,Aidas Bendoraitis,2018-10-31 Create unbelievably fast robust and secure web apps with Django Web Framework and Python 3 6 Key FeaturesDiscover solutions to a variety of web application scenarios leveraging the power of the Django frameworkUnderstand URL routing models forms templates and RESTful services with Django 2 14Test deploy and scale your web applications efficiently with Amazon Web ServicesBook Description Django is a framework designed to balance rapid web development with high performance It handles high levels of user traffic and interaction integrates with a variety of databases and collects and processes data in real time This book follows a task based approach to guide you through developing with the Django 2 1 framework starting with setting up and configuring Docker containers and a virtual environment for your project You ll learn how to write reusable pieces of code for your models and manage database changes You ll work with forms and views to enter and list data applying practical examples using templates and JavaScript together for the optimum user experience This cookbook helps you to adjust the built in Django administration to fit your needs and sharpen security and performance to make your web applications as robust scalable and dependable as possible You ll also explore integration with Django CMS the popular content management suite In the final chapters you ll learn programming and debugging tricks and discover how collecting data from different sources and providing it to others in various formats can be a breeze By the end of the book you ll learn how to test and deploy projects to a remote dedicated server and scale your application to meet user demands What you will learnGet started with the basic configuration necessary to start any Django projectBuild a database structure out of reusable model mixinsSecure web applications against malicious usage and address common performance bottlenecksIntegrate with and extend the Django CMSConstruct and manage complex and deep hierarchiesImport data from local sources and external web services and export it to third partiesWho this book is for This book is designed for Python developers working on fast and secure web apps that can scale over time You ll also find this book useful if you want to upgrade to latest Django framework A background in Python 3 along with basic knowledge of the Django framework will be useful

**The Definitive Guide to Django** Adrian Holovaty,Jacob Kaplan-Moss,2009-08-15 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

**Building Websites with Django** Awanish Ranjan, 2021-02-16 A beginner s guide that will help you get familiar with Django for web development

**KEY FEATURES** \_ Learn to build websites with a strong blend of concepts and practical learning \_ Set up your public website with advanced functionalities from scratch \_ Explore Django architecture components navigation panel and templates

**DESCRIPTION** Building Websites with Django book teaches readers to develop their high quality feature rich website by learning Django and its various tools You will learn the best techniques to develop a dynamic website right from scratch This book focuses not only on just creating a particular application but rather develops a strong understanding of theoretical concepts with rich examples You will learn to troubleshoot errors develop navigation panels and add advanced functionalities like deploying on heroku server You will read about models templates different types of views You will learn to create apps and learn how to integrate different apps By the end of this book You will create a project from scratch and will deploy it as a public website by yourself

**WHAT YOU WILL LEARN** \_ Create a Django project from scratch and deploy them as a public website \_ Work with Django components such as Model View and Template \_ Interact with the database using Query Sets \_ Deploy your Django application for free on Heroku \_ Learn how to use Django s built in authentication and authorization module effectively

**WHO THIS BOOK IS FOR** This book is for early entrepreneurs beginners software professionals bloggers and hobbyists who want to create their online presence on their own without having any prior technical knowledge about web tools

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**Django 5 Cookbook** Clara Stein, 2024-03-15 For Python programmers backend developers and web developers looking to become experts in the Django framework and improve their problem solving skills Django 5 Cookbook is the simplest and easiest pocket solution book This book presents a variety of recipes and solutions to the complex problems of developing web applications in a clear and concise manner Presented in a logical progression from basic ideas to more complex

implementations this book covers every angle when it comes to Django The first step in building powerful web apps is learning how to set up Django in a virtual environment Models databases user interfaces and authentication are all thoroughly covered as the script goes along providing a strong groundwork for creating fast and secure applications Django REST Framework integration with popular front end frameworks like React js and Vue js as well as the development of flexible APIs are all covered in detail with sample programs Chapters on CI CD logging with Prometheus and safeguarding Django APIs highlight the significance of best practices in software development while containerization with Docker and orchestration with Kubernetes simplify the deployment of scalable applications Django 5 Cookbook is more than just a collection of solutions it s a guide for those who want to become skilled Django developers and problem solvers Not only will readers have a firm grasp of Django by the book s conclusion but they will also have internalized the mindset necessary to build web applications that are secure easy to maintain and of high quality enabling them to confidently face the challenges of their daily jobs

**Key Learnings**

- Learn Django setup and settings for cross environment development
- Master Django s ORM to efficiently manage database operations
- Use forms and authentication to create engaging user interfaces
- Use Django REST Framework to create flexible scalable APIs
- Build dynamic web apps with integrating Django to React js or Vue js
- Use Docker and Kubernetes to standardize development and production
- Build faster with CI CD s automated testing and deployment
- Implement strong Prometheus logging strategies for real time application monitoring and troubleshooting
- Optimize Django performance by scaling easily with distributed systems
- Enhance Django API security to avoid vulnerabilities and threats

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- Testing Security and Deployment
- Advanced Web Application Features with Django

**Django and Ecosystem**

*Django for Professionals* William S. Vincent, 2022-05-19 Completely updated for Django 4.0 Django for Professionals takes your web development skills to the next level teaching you how to build production ready websites with Python and Django Once you have learned the basics of Django there is a massive gap between building simple toy apps and what it takes to build a production ready web application suitable for deployment to thousands or even millions of users In the book you ll learn how to Build a Bookstore website from scratch Use Docker and PostgreSQL locally to mimic production settings Implement advanced user registration with email Customize permissions to control user access Write comprehensive tests Adopt advanced security and performance improvements Add search and file image uploads Deploy with confidence If you want to take advantage of all that Django has to offer Django for Professionals is a comprehensive best practices guide to building and deploying modern websites

[Sams Teach Yourself Django in 24 Hours](#) Brad Dayley, 2008-02-22 In just 24 lessons of one hour or less you will be able to build full featured production websites using Django the powerful web development framework based on Python Designed for experienced website developers who have at least some familiarity

with the Python programming language this book uses a straightforward step by step approach Each lesson builds on the previous ones enabling you to learn the essentials of implementing the Django framework on a website from the ground up Step by step instructions carefully walk you through the most common Django tasks Q As quizzes and exercises at the end of each lesson help you test your knowledge Notes and tips point out shortcuts and solutions Learn how to Install and configure the Django web development framework Cleanly separate data logic and view layers Implement site interfaces with build templates and views Utilize templates and views to store access and retrieve data Use the Django forms library Define custom tags and filters to minimize coding Secure sites with registration authorization logins and permissions Manage sessions and cookies Implement middleware for request and response handling Create sitemaps to inform search engines of your content Internationalize your site Optimize performance with caching Deploy Django in multiple configurations Maintain sites with Django s administrator interface

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## **Django Example Antonio Mele Introduction**

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