

Read Book The Definitive Guide To Django Web Development Done Right Adrian Holovaty Pdf File Free

Web Development with Django Django: Web Development with Python Python Web Development with Django Web Development with Django Cookbook The Definitive Guide to Django Learn Web Development with Python Learning Django Web Development Django Design Patterns and Best Practices - Second Edition Beginning Django Python Django Web Development Building Websites with Django Web Development with Django Django 2 Web Development Cookbook Lightweight Django Web Development with Django Cookbook - Second Edition Pro Django Django Project Blueprints

Professional Python Frameworks Advanced Web Development in Python with Django Django 3 By Example Practical Django Projects Python Web Development with Django Becoming an Enterprise Django Developer Django Design Patterns and Best Practices Django 2 by Example Django for Beginners Learning Website Development with Django Django 4 for the Impatient Building SPAs with Django and HTML Over the Wire A Beginner's Guide to Django Django 3 Web Development Cookbook Python Django Web Development Django 4 By Example Beginning Django E-Commerce Django

Cookbook Mastering Django: Core Sams Teach Yourself Django in 24 Hours Django JavaScript Full Stack Django and React

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. If you have created websites with Django, but you want to sharpen your knowledge and learn some good approaches for how to treat different aspects of web development, you should definitely read this book. It is intended for intermediate and professional Django users

who need to build projects which must be multilingual, functional on devices of different screen sizes, and which scale over time. A quick-start guide to exploring and using Python and Django to develop web applications in minutes

Key Features

- Develop web applications with Python and Django quickly
- Understand Django features with short explanations and learn how to use them right away
- Create a movie reviews app with a responsive user interface and deploy it to the cloud

Book Description Learning Django can be a tricky and time-consuming activity. There are hundreds of tutorials, loads of documentation, and many explanations that are hard to digest. However, this book enables you to use and learn Django in just a couple of days. In this book, you'll go on a fun, hands-on, and pragmatic journey to learn Django full stack development. You'll start building your first Django app within minutes. You'll be provided with short explanations and a practical approach that cover some of the most important Django

features, such as Django Apps' structure, URLs, views, templates, models, CSS inclusion, image storage, authentication and authorization, Django admin panel, and many more. You'll also use Django to develop a movies review app and deploy it to the internet. By the end of this book, you'll be able to build and deploy your own Django web applications. What you will learn

- Understand and implement Django Apps' basic structure, including URLs, views, templates, and models
- Add bootstrap to improve the aesthetics of the site
- Create your own custom pages and have different URLs to route to them
- Navigate between pages by adding a header bar to all pages
- Work with databases and models
- Explore the powerful built-in admin interface with Django
- Use Django's powerful, built-in authentication system
- Deploy your Django project on the internet for the world to use

Who this book is for This book is for Python developers at any level of experience with Python programming who want to build full-

stack Python web applications using Django. The book is for absolute Django beginners. [Updated 2020.08.31] Learn how to build and deploy web applications with Python and Django.

1. Python Installation & Test Project Install Python and create a simple test project.
2. Virtual Environment Project dependencies (packages the project depends on) are isolated using a virtual environment.
3. Requirements Dependencies are installed using requirement files. Each environment gets its own file.
4. Pizzeria Project Create a new project directory structure and learn about the default configuration files.
5. Settings Each environment gets its own settings file that configures the project.
6. Environment Variables Sensitive data (like passwords) are stored as environment variables.
7. PostgreSQL PostgreSQL database is used in development and production environments.
8. Pages App Use apps to add new features to the project (home and about page).
9. Bootstrap & Template Inheritance Add

a responsive theme using Bootstrap frontend framework. 10. Pizzas App Pizzas app allows users to create, edit, display and delete pizzas. 11. Pizza Model Pizza model describes how each pizza is stored in the database. 12. Toppings ManyToMany Relationship Toppings demonstrate how to use ManyToMany relationships. 13. Images Each pizza can have an image. Smaller thumbnails are generated using the django-imagekit library. 14. Forms Django's generic class-based editing views makes it easy to create custom forms. 15. Detail Page Each pizza have its own detail page. SlugField is used to create user-friendly paths (pizzas/quattrostagioni/). 16. Search With Pagination Search pizzas with keywords and add a re-usable pagination. 17. Authentication Add an authentication system that allows users to sign-in and log-in to the site. 18. Permissions Restrict access to parts of the site using groups and permissions. 19. Static Files (CSS, Sass & JavaScript) Override Bootstrap styling with your

custom CSS and manipulate web pages using JavaScript. 20. Messages & Context Processors Show temporary messages and display dynamic data on every page. 21. Amazon S3 Storage & CloudFront Store static files (CSS, images and JavaScript) and user uploaded media (pizza images) in Amazon S3 bucket and serve files using CloudFront (content delivery network). 22. Deployment To Heroku Deploy the website to Heroku cloud application platform. 23. Extras: Function-based Views (Forms with ModelForm) Allow visitors to send feedback (and provide a screenshot). 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 management system Ajax-powered live blogger Online source code sharing/syntax highlighting tool How to run your Django applications on the Google App Engine This complete guide starts by introducing Python, Django, and Web development concepts, then dives into the Django framework, providing a deep understanding of its major components (models, views, templates), and how they come together to form complete Web applications. After a discussion of four independent working Django applications, coverage turns to advanced topics,

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such as caching, extending the template system, syndication, admin customization, and testing. Valuable reference appendices cover using the command-line, installing and configuring Django, development tools, exploring existing Django applications, the Google App Engine, and how to get more involved with the Django community. Introduction 1 Part I: Getting Started Chapter 1: Practical Python for Django 7 Chapter 2: Django for the Impatient: Building a Blog 57 Chapter 3: Starting Out 77 Part II: Django in Depth Chapter 4: Defining and Using Models 89 Chapter 5: URLs, HTTP Mechanisms, and Views 117 Chapter 6: Templates and Form Processing 135 Part III: Django Applications by Example Chapter 7: Photo Gallery 159 Chapter 8: Content Management System 181 Chapter 9: Liveblog 205 Chapter 10: Pastebin 221 Part IV: Advanced Django Techniques and Features Chapter 11: Advanced Django Programming 235 Chapter 12: Advanced Django Deployment 261 Part V: Appendices Appendix A: Command Line

Basics 285 Appendix B: Installing and Running Django 295 Appendix C: Tools for Practical Django Development 313 Appendix D: Finding, Evaluating, and Using Django Applications 321 Appendix E: Django on the Google App Engine 325 Appendix F: Getting Involved in the Django Project 337 Index 339 Colophon 375 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. 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. TABLE OF CONTENTS 1. Introduction to Django 2. An Overview of the MTV Architecture 3. Understanding Django Settings 4. Django Admin Utility 5. Interacting with the Database using Query Sets 6. Enhancing your Project 7. Understanding Models 8. Django Views 9. Django Templates 10. URL and Regex 11. Forms in Django 12. Setting up a Project 13. The Account app 14. The Genre app 15. The Post app 16. Deploying the Website Discover how to construct real-time applications with Python and Django without the hassle of learning JavaScript Key Features • Learn to put together an SPA using Python and very little JavaScript • Create WebSocket communication between the backend and frontend • Build a

real-world project with Django using the techniques provided in this book Book Description The HTML over WebSockets approach simplifies single-page application (SPA) development and lets you bypass learning a JavaScript rendering framework such as React, Vue, or Angular, moving the logic to Python. This web application development book provides you with all the Django tools you need to simplify your developments with real-time results. You'll learn state-of-the-art WebSocket techniques to realize real-time applications with minimal reliance on JavaScript. This book will also show you how to create a project with Docker from the ground up, test it, and deploy it on a server. You'll learn how to create a project, add Docker, and discover development libraries, Django channels, and bidirectional communication, and from then, on you'll create real projects of all kinds using HTML over WebSockets as a chat app or a blog with real-time comments. In addition, you'll modernize your development

techniques by moving from using an SSR model to creating web pages using WebSockets over HTML. With Django, you'll be able to create SPAs with professional real-time projects where the logic is in Python. By the end of this Django book, you'll be able to build real-time applications, as well as gaining a solid understanding of WebSockets with Django. What you will learn

- Explore real-time site realization
- Understand the proper use of Django channels
- Find out how to set up Docker with Django
- Discover how to use a JavaScript framework such as Stimulus
- Manage a database asynchronously in Django
- Bring dynamic rendering logic to the backend

Who this book is for This book is for developers looking to build applications where they want to bring logic to the backend, learn WebSockets, and not depend on JavaScript heavily to create a single-page application. Basic knowledge of HTML and Python and familiarity with basic web development concepts is expected. How can you

take advantage of the Django framework to integrate complex client-side interactions and real-time features into your web applications? Through a series of rapid application development projects, this hands-on book shows experienced Django developers how to include REST APIs, WebSockets, and client-side MVC frameworks such as Backbone.js into new or existing projects. Learn how to make the most of Django's decoupled design by choosing the components you need to build the lightweight applications you want. Once you finish this book, you'll know how to build single-page applications that respond to interactions in real time. If you're familiar with Python and JavaScript, you're good to go. Learn a lightweight approach for starting a new Django project Break reusable applications into smaller services that communicate with one another Create a static, rapid prototyping site as a scaffold for websites and applications Build a REST API with django-rest-framework Learn how to use Django with

the Backbone.js MVC framework Create a single-page web application on top of your REST API Integrate real-time features with WebSockets and the Tornado networking library Use the book's code-driven examples in your own projects Delivers absolutely everything you will ever need to know to become a master Django programmer About This Book Gain a complete understanding of Django—the most popular, Python-based web framework in the world Gain the skills to successfully designing, developing, and deploying your app This book is packaged with fully described code so you can learn the fundamentals and the advanced topics to get a complete understanding of all of Django's core functions Who This Book Is For This book assumes you have a basic understanding of the Internet and programming. Experience with Python or Django would be an advantage, but is not necessary. It is ideal for beginner to intermediate programmers looking for a fast, secure, scalable, and maintainable

alternative web development platform to those based on PHP, Java, and dotNET. What You Will Learn Use Django to access user-submitted form data, validate it, and work with it Get to know advanced URLconf tips and tricks Extend Django's template system with custom code Define models and use the database API to create, retrieve, update, and delete records Fully extend and customize the default implementation as per your project's needs Test and deploy your Django application Get to know more about Django's session, cache Framework, and middleware In Detail Mastering Django: Core is a completely revised and updated version of the original Django Book, written by Adrian Holovaty and Jacob Kaplan-Moss - the creators of Django. The main goal of this book is to make you a Django expert. By reading this book, you'll learn the skills needed to develop powerful websites quickly, with code that is clean and easy to maintain. This book is also a programmer's manual that provides complete

coverage of the current Long Term Support (LTS) version of Django. For developers creating applications for commercial and business critical deployments, Mastering Django: Core provides a complete, up-to-date resource for Django 1.8LTS with a stable code-base, security fixes and support out to 2018. Style and approach This comprehensive step-by-step practical guide offers a thorough understanding of all the web development concepts related to Django. In addition to explaining the features of Django, this book provides real-world experience on how these features fit together to build extraordinary apps. 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 From an idea to a prototype - a complete guide for web development with the Django framework About This Book Explore the best practices to develop applications of a superior quality with Django framework Unravel the common problems of web development in Django This course teaches you major Django functions and will help you improve your skills by developing models, forms, views, and templates Experience the challenges of working on an end-to-end social network project Who This Book Is For Web developers who want to use modern Python-based web frameworks like Django to build powerful web

applications. The course is mostly self-contained and introduces web development with Python to a reader who is familiar with web development concepts and can help him become an expert in this trade. It's intended for all levels of web developers, both students and practitioners from novice to experts. What You Will Learn Use Django models to store information in the database and generate queries to access a database across models Quickly develop web pages to create, read, update, and delete data from the model using class-based views Generate very maintainable forms with Django Import data from local sources and external web services as well as exporting your data to third parties Deep dive into various aspects of Django from models and views to testing and deployment Familiarize yourself with the various nuances of web development such as browser attacks and databases In Detail Data science is hot right now, and the need for multitalented developers is greater than ever before. A basic

grounding in building apps with a framework as minimalistic, powerful, and easy-to-learn as Django will be a useful skill to launch your career as an entrepreneur or web developer. Django is a web framework that was designed to strike a balance between rapid web development and high performance. This course will take you on a journey to become an efficient web developer thoroughly understanding the key concepts of Django framework. This learning path is divided into three modules. The course begins with basic concepts of the Django framework. The first module, Django Essentials, is like a practical guide, filled with many real-world examples to build highly effective Django web application. After getting familiar with core concepts of Django, it's time to practice your learning from the first module with the help of over 90 recipes available in this module. In the second module, Web Development with Django Cookbook, you'll learn varying complexities to help you create multilingual, responsive, and

scalable websites with Django. By the end of this module, you will have a good understanding of the new features added to Django 1.8 and be an expert at web development processes. The next step is to discover the latest best practices and idioms in this rapidly evolving Django framework. This is what you'll be learning in our third module, Django Design Patterns and Best Practices. This module will teach you common design patterns to develop better Django code. By the end of the module, you will be able to leverage the Django framework to develop a fully functional web application with minimal effort. Style and approach This course includes all the resources that will help you jump into the web development field with Django and learn how to make scalable and robust web applications. The aim is to create a smooth learning path that will teach you how to get started with the powerful Django framework and perform various web development techniques in depth. Through this comprehensive course,

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you'll learn web development with Django from scratch to finish! Completely updated for Django 4.2! Django for Beginners is a project-based introduction to Django, the popular Python-based web framework. Suitable for total beginners who have never built a website before as well as professional programmers looking for a fast-paced guide to modern web development and Django fundamentals. In the book you'll learn how to:

- * Build 5 websites from scratch, including a Blog and Newspaper
- * 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 and deploying your own websites quickly. 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. 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. A comprehensive guide to Python programming for web development using the most popular Python web framework - Django Key Features Learn the fundamentals of programming with Python and building web apps Build web applications from scratch with Django Create real-world RESTful web services with the latest Django framework Book Description If you want to develop complete Python web apps with Django, this Learning Path is for you. It will walk you through Python programming techniques and guide you in implementing them when creating 4 professional Django projects, teaching you how to solve common problems and develop RESTful web services with Django and Python. You will learn how to build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Learn Web Development with Python will get you started with Python

programming techniques, show you how to enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. Last but not least, you'll learn the best practices for creating real-world applications. By the end of this Learning Path, you will have a full understanding of how Django works and how to use it to build web applications from scratch. This Learning Path includes content from the following Packt products: Learn Python Programming by Fabrizio Romano Django RESTful Web Services by Gastón C. Hillar Django Design Patterns and Best Practices by Arun Ravindran What you will learn Explore the fundamentals of Python programming with interactive projects Grasp essential coding concepts along with the basics of data structures and control flow Develop RESTful APIs from scratch with Django and the Django REST Framework Create automated tests for RESTful web services Debug, test, and profile RESTful

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web services with Django and the Django REST Framework Use Django with other technologies such as Redis and Celery Who this book is for If you have little experience in coding or Python and want to learn how to build full-fledged web apps, this Learning Path is for you. No prior experience with RESTful web services, Python, or Django is required, but basic Python programming experience is needed to understand the concepts covered. 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 ... Learn Database Driven Web Development with Django and Python! About This Video Use the Sublime editor to build a Django app from scratch with the help of practical examples Learn basic CSS with

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Bootstrap 4.1 In Detail Django and Python may seem challenging at first, but with the right guidance, you can gain the confidence to work with them effectively. In this course, you'll learn through a step-by-step manner, quickly and easily, and also be able to create professional looking websites, even if you have no programming or web design experience. You'll watch and learn as the instructor demonstrates how to build a cool to-do list app. You can follow the instructions and even build your own version of the app. After building the web app, you can make lists and even save them to a database. You can then update the list as you complete the tasks by crossing them off the list. The course will also help you focus on styling the website using the popular Bootstrap CSS framework. By the end of this course, you'll have a strong understanding of Django and the skills to use it for building interactive web apps. Downloading the example code for this course: You can download the example code files for this course

on GitHub at the following link:
<https://github.com/PacktPublishing/Python-Django-Web-Development-To-Do-App/> . If you require support please email: customercare@packt.com. The need for web apps has been on the rise. However, most languages that support web development do not provide an easy means by which to implement the modern need for web apps. This means that developers spend longer periods of time developing these apps. Django is a Python framework that provides web developers with a mechanism to develop web apps in a quick and easy manner. Therefore you need to know how to use the Python framework. This book explores this in detail. Make sure that you install Python 2.6.5 or higher. Enjoy reading! Django allows developers to build websites that are deep and dynamic in a very short time. It takes the hard work out of developing leaving users to focus on the fun and taking away the repetitive parts of the job. Because of this, Django can provide high-level

abstractions of the most common patterns in web development, shortcuts for programming jobs done frequently, and very clear conventions on solving problems. While providing all this, Django does its best not to get in the way leaving you to do as much work outside the framework scope as you want. Django is about making web development fun and easy. Over the course of this section, we will look at the basics of installing and using the framework. TABLE OF CONTENTS Introduction Chapter 1- Why Django Chapter 2- Setting up the Environment Chapter 3- The Admin Interface Chapter 4- Creating Views in Django Chapter 5- URL Mapping Chapter 6- Template System Chapter 7- Models Chapter 8- Page Redirection Chapter 9- Sending E-mails Chapter 10- Form Processing in Django Chapter 11- Handling Cookies Chapter 12- Sessions in Django Chapter 13- Memory Caching in Django Conclusion Develop stunning web application projects with the Django framework About This Book Build six exciting

projects and use them as a blueprint for your own work Extend Django's built-in models and forms to add common functionalities into your project, without reinventing the wheel Gain insights into the inner workings of Django to better leverage it Who This Book Is For If you are a Django web developer able to build basic web applications with the framework, then this book is for you. This book will help you gain a deeper understanding of the Django web framework by guiding you through the development of seven amazing web applications. What You Will Learn Create a blogging platform and allow users to share posts on different blogs Prioritise user-submitted content with an intelligent ranking algorithm based on multiple factors Create REST APIs to allow non-browser based usage of your web apps Customize the Django admin to quickly create a full-featured and rich content management system Use Elasticsearch with Django to create blazing fast e-commerce websites Translate your Django

applications into multiple languages Dive deep into Django forms and how they work internally In Detail Django is a high-level web framework that eases the creation of complex, database-driven websites. It emphasizes on the reusability and pluggability of components, rapid development, and the principle of don't repeat yourself. It lets you build high-performing, elegant web applications quickly. There are several Django tutorials available online, which take as many shortcuts as possible, but leave you wondering how you can adapt them to your own needs. This guide takes the opposite approach by demonstrating how to work around common problems and client requests, without skipping the important details. If you have built a few Django projects and are on the lookout for a guide to get you past the basics and to solve modern development tasks, this is your book. Seven unique projects will take you through the development process from scratch, leaving no stone unturned. In the first two projects, you will

learn everything from adding ranking and voting capabilities to your App to building a multiuser blog platform with a unique twist. The third project tackles APIs with Django and walks us through building a Nagios-inspired infrastructure monitoring system. And that is just the start! The other projects deal with customizing the Django admin to create a CMS for your clients, translating your web applications to multiple languages, and using the Elasticsearch search server with Django to create a high performing e-commerce web site. The seventh chapter includes a surprise usage of Django, and we dive deep into the internals of Django to create something exciting! When you're done, you'll have consistent patterns and techniques that you can build on for many projects to come. Style and approach This easy-to-follow guide is full of examples that will take you through building six very different web applications with Django. The code is broken down into manageable bites and then thoroughly

explained. Django Cookbook Web Development with Django This book is an exploration of Django, which is a Python framework used for the development of web apps. This book provides you with an explanation of what the framework is and its relationship to Python. The first chapter guides you on how to set up the environment ready for programming with Django. The Admin Interface in Django will also be discussed. After reading, you will learn how to set up, launch and use this interface. This book also guides you as to how to create views in Django. The process of URL mapping, models in Django, and how to perform page redirection will also be discussed in this book. The various ways to send E-mails in Django will also be covered. Generic views as well as form processing will also be discussed in detail, as well as the processes for handling both cookies and sessions. Here is a preview of what you'll learn: Setting up the Environment The Admin Interface Creating Views in Django - URL

Mapping Template System Models Page
Redirection Sending E-mails Generic Views
Form Processing in Django Uploading Files
Handling Cookies Sessions in Django Memory
Caching in Django Download your copy of " h1
Django Cookbook " by scrolling up and clicking
"Buy Now With 1-Click" button. This book is for
web developers who want to get started with
Django for web development. Basic knowledge
of Python programming is required but no
knowledge of Django is expected. There has
been an increase in the need for web apps,
however, most programming languages which
support app development are complex. This
means that longer periods of times are spent
while developing these apps. Python has a
framework called "Django" which provides web
developers with a mechanism to develop web
apps in an easy and quick manner. So it's a good
idea for you to learn how to use this framework
for the development of web apps, all of which is
explained in this book. Make sure that you

install Python 2.6.5 or higher. Enjoy
reading! This book will save you time. On many
occasions we've seen clever students get stuck,
spending hours trying to fight with Django and
other aspects of web development. More often
than not, the problem was usually because a key
piece of information was not provided, or
something was not made clear. While the
occasional blip might set you back 10-15
minutes, sometimes they can take hours to
resolve. We've tried to remove as many of these
hurdles as possible. This will mean you can get
on with developing your application instead of
stumbling along. This book will lower the
learning curve. Web application frameworks can
save you a lot of hassle and lot of time. Well, that
is if you know how to use them in the first place!
Often the learning curve is steep. This book tries
to get you going - and going fast by explaining
how all the pieces fit together. This book will
improve your workflow. Using web application
frameworks requires you to pick up and run with

a particular design pattern - so you only have to fill in certain pieces in certain places. After working with many students, we heard lots of complaints about using web application frameworks - specifically about how they take control away from them (i.e. inversion of control). To help you, we've created a number of workflows to focus your development process so that you can regain that sense of control and build your web application in a disciplined manner. This book is not designed to be read. Whatever you do, do not read this book! It is a hands-on guide to building web applications in Django. Reading is not doing. To increase the value you gain from this experience, go through and develop the application. When you code up the application, do not just cut and paste the code. Type it in, think about what it does, then read the explanations we have provided to describe what is going on. If you still do not understand, then check out the Django documentation, go to Stack Overflow or other

helpful websites and fill in this gap in your knowledge. As two of the leading MVC web frameworks for Python, Django and TurboGears allow you to develop and launch sites in a fraction of the time compared to traditional techniques and they provide greater stability, scalability, and management than alternatives. Packed with examples, this book will help you discover a new methodology for designing, coding, testing, and deploying rich web applications. A team of expert authors shows you the power of MVC frameworks and the capabilities of the TurboGears and Django packages. The Django chapters show you how to automate production of common web development tasks, portal creation, and content management, so you can focus on higher-level application issues and design. The TurboGears chapters illustrate how to rapidly create modern, highly interactive Web 2.0 applications. For both frameworks, you'll create useful applications that exemplify common Web 2.0 design

paradigms and their solutions. Ultimately, you'll leverage your Python skills using Django and TurboGears and go from novice to RIA expert. What you will learn from this book * How you can use frameworks to save you time and frustration in the development cycle * The elements, differences, and similarities of the TurboGears and Django frameworks * Advanced capabilities of both frameworks and how they easily solve issues common to web applications * Approaches to simplifying your client side JavaScript(r) with MochiKit, a Pythonic JavaScript library * How to pair TurboGears with Flash for even more possibilities Who this book is for This book is for Python developers who want to learn rapid Web 2.0 development techniques using frameworks and incorporating a model-view-controller architecture. Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they

address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job. Learn to create fully functional web applications with authentication, content management systems, payment processing, RESTful APIs, and more Purchase of the print or Kindle book includes a free eBook in PDF format. Key FeaturesImplement advanced functionalities, such as full-text search engines, user activity streams, payment gateways, and recommendation enginesIntegrate JavaScript, PostgreSQL, Redis, Celery, and Memcached into your applicationsAdd real-time features with Django Channels and WebSocketsBook 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. Build professional, cloud-ready web applications from frontend to backend using the latest features of Django and React Key Features Explore the advanced features of - popular frameworks like Django and React by working on hands-on projects Launch your career as a full-stack Python web developer with this step-by-step guide Learn to deploy complete web applications to AWS Book Description Django developers often need to rely on frontend developers to build a client-side solution for their web apps. By combining the capabilities of React with Django, this book creates a complete learning path to go from being a backend developer to a full stack developer in no time. This book will help you use React to build state-of-the-art UI layouts and Django to create an immaculate backend. This

web development book will help you discover the full potential of combining the dual power of the two most popular frameworks - React and Django. You'll build full stack applications, including a RESTful API in the backend and an intuitive frontend, while exploring the advanced features of both frameworks. You'll also explore how the dynamic functionality of the React framework can be used to build your frontend systems and how the ORM layer of Django helps in simplifying database interactions. This will in turn boost the development process for building the backend and facilitate the building of full stack applications. By the end of the book, you will be able to create a dynamic full stack app starting from scratch on your own. What you will learn Explore how things work differently under the hood in the frontend as well as the backend Discover how to build an API with Django Start from scratch to build an intuitive UI using React's capabilities Dockerize and prepare projects for deployment Deploy an API and UI

using AWS services such as AWS EC2, S3, and AWS Cloudfront. Who this book is for This book is for Django web developers who want to get started with full-stack development and learn a frontend framework that can be quickly bootstrapped with the backend to build full-stack applications. Familiarity to React and JavaScript would be an added advantage. Beginning Django E-Commerce guides you through producing an e-commerce site using Django, the most popular Python web development framework. Topics covered include how to make a shopping cart, a checkout, and a payment processor; how to make the most of Ajax; and search engine optimization best practices. Throughout the book, you'll take each topic and apply it to build a single example site, and all the while you'll learn the theory behind what you're architecting. Build a fully functional e-commerce site. Learn to architect your site properly to survive in an increasingly competitive online landscape with good search engine optimization

techniques. Become versed in the Django web framework and learn how you can put it to use to drastically reduce the amount of work you need to do to get a site up and running quickly. 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. 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

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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. A Python web developer's guide to exploring the Django development lifecycle - beyond the basics Key Features Expert tips to help you use the right packages, tools, and libraries and understand their scope for your project Gain a thorough understanding of the essential components that comprise a large-scale Python web app Learn best practices for creating a project structure for better performance Book Description Django is a powerful framework but choosing the right additions 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 learn Use Django to develop enterprise-level apps to help scale your business Understand the steps and tools used to scale up a proof-of-concept project to production without going too deep into specific technologies Explore core Django components and how to use them in different ways to suit your app's needs Find out how Django allows you to build RESTful APIs Extract, 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. This recipe-based guide is intended to solve common problems in building web apps with Django 3 and Python. Starting from setting up your environment, you will come across actionable solutions for common tasks like building models, forms, views, data management, through to testing, deploying, and securing your web apps. More than 8 Hours of Video Instruction Overview Advanced Web Development in Python with Django LiveLessons is intended for people familiar with web development who understand

the basics of Django and want to get more out of it but are unfamiliar with more difficult topics such as authentication, database query optimization, and caching. The course builds directly on top of Andrew Pinkham's previous course, Web Development in Python with Django LiveLessons, starting with the same code base where the class left off and building new features in the same project, making for a clear and clean learning progression. While the previous course is not a hard prerequisite, the prerequisites for that course and the concepts introduced in it will be necessary to understand the videos. A review lesson enables people to judge for themselves whether the course is appropriate for their level. About the Instructor Andrew Pinkham is the founder and lead engineer at JamBon Software, which provides development consulting services. He is the author of Django Unleashed (Pearson) and a popular speaker at DjangoCon U.S., and provides instruction in Python and Django.

Andrew specializes in web and mobile products and enjoys communicating complex ideas in simple ways. He is also passionate about usability, security, and distributed systems. He is a 2009 graduate of Dartmouth College and currently resides in Boston, Massachusetts. Skill Level Intermediate Learn How To Write tests for Django Implement authentication in Django Optimize Django performance Enhance applications Enable user media and processing with a Celery queue Utilize asynchronous Python Who Should Take This Course Python programmers and other software developers interested in leveraging the Django web framework to build web applications Course Requirements Python programming experience Lesson Descriptions Lesson 1: Dip Your Toes Into Test Writing Lesson 1 starts off the course with testing, which is crucial to successful software development. The lesson begins by looking at the why, what, and how of testing, and then dives into how to test all the different

components in Django. You also get a taste of Django's check framework. Lesson 2: Protect Site Access with Authentication Lesson 2 starts with authentication, or login and logout, but the focus is not limited to just that. As always, the lesson begins by discussing the fundamentals, and then dives into how they work with Django. We'll build login and... 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. 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. 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 Introduction 1 Part I: Creating the Website Framework Hour 1: Understanding Django 7 Hour 2: Creating Your First Website 19 Hour 3: Adding Models and Objects to Your Website 37 Hour 4: Creating the Initial Views 63 Part II: Implementing the Website Interface Hour 5: Using Data from the Database in Views 81 Hour 6: Configuring Web Page Views 103 Hour 7: Implementing Django Templates to Create Custom Views 117 Hour 8: Using Built-in Template Tags to Enhance Views 139 Hour 9: Using Built-in Template Filters to Enhance Views 155 Hour 10: Adding Forms to Views 185 Hour 11: Using Views to Add and Update Data in the Database 209 Hour 12: Utilizing Generic Views 231 Hour 13: Advanced View Configurations 269 Part III: Implementing a Full-Featured Website Hour 14: Managing Site Users 295 Hour 15: Adding Website Security 313 Hour

16: Managing Sessions and Cookies 333 Hour
17: Customizing Models in the Admin Interface
347 Hour 18: Customizing the Admin Interface
365 Part IV: Implementing Advanced Website
Components Hour 19: Implementing Middleware
383 Hour 20: Internationalization and
Localization 407 Hour 21: Creating Sitemaps
423 Hour 22: Implementing Multiple Websites
437 Hour 23: Configuring Caching 451 Hour 24:
Deploying Django 465 Appendixes Appendix A:
Django Resources 477 Appendix B: Django Form
Field Objects 481 Appendix C: Formatting Dates
and Times 491 Index 493 Do you want to
develop reliable and secure applications that
stand out from the crowd without spending
hours on boilerplate code? You've made the
right choice trusting the Django framework, and
this book will tell you why. Often referred to as a
"batteries included" web development
framework, Django comes with all the core
features needed to build a standalone
application. Web Development with Django will

take you through all the essential concepts and
help you explore its power to build real-world
applications using Python. Throughout the book,
you'll get the grips with the major features of
Django by building a website called Bookr - a
repository for book reviews. This end-to-end
case study is split into a series of bitesize
projects presented as exercises and activities,
allowing you to challenge yourself in an
enjoyable and attainable way. As you advance,
you'll acquire various practical skills, including
how to serve static files to add CSS, JavaScript,
and images to your application, how to
implement forms to accept user input, and how
to manage sessions to ensure a reliable user
experience. You'll cover everyday tasks that are
part of the development cycle of a real-world
web application. By the end of this Django book,
you'll have the skills and confidence to creatively
develop and deploy your own projects. Key
Features Understand Django functionality and
the Model-View-Template (MVT) paradigm

Create and iteratively build a book review website, adding features as you build your knowledge Explore advanced concepts such as REST API implementation and third-party module integration What you will learn Create a new application and add models to describe your data Use views and templates to control behavior and appearance Implement access control through authentication and permissions Develop practical web forms to add features such as file uploads Build a RESTful API and JavaScript code that communicates with it Connect to a database such as PostgreSQL Who this book is for This book is for programmers looking to enhance their web development skills using the Django framework. To fully understand the concepts explained in this book, basic knowledge of Python programming as well as familiarity with JavaScript, HTML, and CSS is assumed. 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. Over 70 practical recipes to help you create scalable websites using the Django 1.8 framework About This Book This is the latest book on the market that will help you take advantage of the new features added to Django 1.8 This book consists of recipes of varying complexities to help you create

multilingual, responsive, and scalable websites with Django This updated edition teaches you major Django functions and will help you improve your skills by developing models, forms, views, and templates Who This Book Is For This book is for intermediate-level and professional Django users who need to build projects that are multilingual, functional on devices of different screen sizes, and that scale over a period of time. If you have created websites with Django but you want to sharpen your knowledge and learn some good approaches to different aspects of web development, you should definitely read this book. What You Will Learn Get started with the basic configuration necessary to start any Django project Build a database structure out of reusable model mixins Manage forms and views and get to know some useful patterns that are used to create them Create handy template filters and tags that you can reuse in every project Integrate your own functionality into the Django CMS Manage hierarchical structures

with MPTT Import data from local sources and external web services as well as exporting your data to third parties Implement a multilingual search with Haystack Test and deploy your project efficiently In Detail Django is a web framework that was designed to strike a balance between rapid web development and high performance. It has the capacity to handle applications with high levels of user traffic and interaction, and can integrate with massive databases on the backend, constantly collecting and processing data in real time. Through this book, you'll discover that collecting data from different sources and providing it to others in different formats isn't as difficult as you thought. It follows a task-based approach to guide you through all the web development processes using the Django framework. We'll start by setting up the virtual environment for a Django project and configuring it. Then you'll learn to

write reusable pieces of code for your models and find out how to manage database schema changes using South migrations. After that, we'll take you through working with forms and views to enter and list data. With practical examples on using templates and JavaScript together, you will discover how to create the best user experience. In the final chapters, you'll be introduced to some programming and debugging tricks and finally, you will be shown how to test and deploy the project to a remote dedicated server. By the end of this book, you will have a good understanding of the new features added to Django 1.8 and be an expert at web development processes. Style and approach Every chapter consists of practical examples and a mix of basic and advanced recipes that will guide you through the entire web development process, starting from project configuration and taking you right through to deployment.