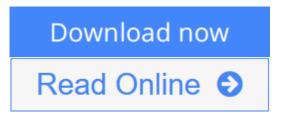# Django: Web Development with Python

By Samuel Dauzon, Aidas Bendoraitis, Arun Ravindran

Django: Web Development with Python By Samuel Dauzon, Aidas Bendoraitis, Arun Ravindran

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, you'll learn web development with Django from scratch to finish!

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Editorial Review

About the Author

Samuel Dauzon

Samuel Dauzon is a web developer. After two years of studying networks and their administration, he decided to head for development. He regularly tries out the latest development technologies for his customers. He is interested in software quality and security. He is also interested in web frameworks and has studied Symfony2 and ExtJS. He works primarily on CodeIgniter2 and Django. He previously worked for CER FRANCE 49 (an accounting firm) for one year, where he created some software that was used internally with the WebDev software. Presently, he works for ILTR, a web development company specializing in ASP, PHP, and CodeIgniter2. For over two years, he has also worked as a freelance web developer (in PHP, Django, and so on).

Aidas Bendoraitis

Aidas Bendoraitis has been professionally working with web technologies for over a decade. Over the past nine years at a Berlin-based company, studio 38 pure communication GmbH, he has developed a number of small-scale and large-scale Django projects?mostly in the cultural area?together with a creative team. At the moment, he is also working as a software architect at a London-based mobile startup, Hype. Aidas regularly attends meetups of Django User Group Berlin, occasionally visits Django and Python conferences, and writes a weblog about Django: http://djangotricks. blogspot.com/.

Arun Ravindran

Arun Ravindran is an avid speaker and blogger who has been tinkering with Django since 2007 for projects ranging from intranet applications to social networks. He is a long-time open source enthusiast and Python developer. His articles and screencasts have been invaluable to the rapidly growing Django community. He is currently a developer member of the Django Software Foundation. Arun is also a movie buff and loves graphic novels and comics.

Users Review

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